THE CHEMIST AND DRUGGIST

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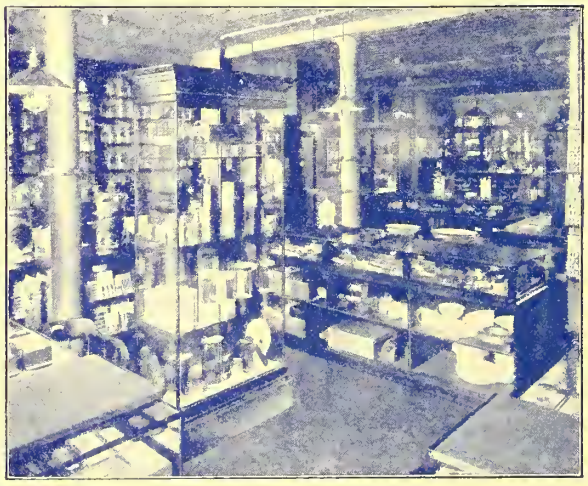

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THE BUYERS' GUIDE.

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Burkett, Sharp & Co.
Gathergood's Exor.
Goodall, Backhouse & Co.
Lambert, Saml., & Co.
Potter & Clarke, Ltd.
Raimes & Co.

Earthenware Jars, &c.
Fulham Pottery and Cheavin Filter Co., Ltd.

Eau de Cologne
Barnett's Perfumery, Ltd.
Bronnley, H., & Co., Ltd.
Christy, Thos., & Co.
Erasmic Co., Ltd.
Gosnell, John, & Co., Ltd.
Lescol Perfumery Co.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Sangers'
Schutze, F., & Co., Ltd.
Yardley & Co., Ltd.

Educational Institutions
Bath&WestofEnglandCollege
Birmingham and Midland College
BoroughPolytechnicInstitute
British Optical Institute
City of London College
College of Preceptors
Eft's College
Liverpool School of Pharmacy
London College of Pharmacy
North of England School
NorthernCollege of Pharmacy
School of Pharmacy
South of England College
Westminster College

Elastic Hosiery
Ayrton Saunders & Co., Ltd.
Burge, Warren & Ridgley, Ld.
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Surgical Hosiery Co., Ltd.
Wood, Vincent

Electrical Novelties
Ward & Goldstone
Wright, Archd. J., Ltd.

Emery and Cloth
Oakey, J., & Sons, Ltd.

Emetine Salts
Macfarlan, J. F., & Co.
Whiffen & Sons, Ltd.

Emulsifiers
Bennett, Sons & Shears, Ltd.
Wilkinson, S. W., & Co.

Emulsions, C.L.O., &c.
Arnfield, J. C., & Sons, Ltd.
Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
Browning, Wm., & Co.
Cupal, Ltd.
Faulding, F. H., & Co.
Parke, Davis & Co.
Scott & Bowne, Ltd.
Stevenson, H. E., & Co.
Wyleys, Ltd.

Enamelled Hospital Requisites
Orme, Evans & Co., Ltd.

Endolytic Tubes
Fletcher, Fletcher & Co., Ltd.

Enemas
Burge, Warren & Ridgley, Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Warne, W., & Co., Ltd.

Epsom Salts
Howards & Sons, Ltd.
May & Baker, Ltd.

Essences, Sol. and Fruit
Alliance Drug & Chem. Co.
Barnett & Foster
Boake Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.
Hay, Wm., Ltd.
London Essence Co.
Stevenson & Howell, Ltd.

Ethers
Baiss Bros. & Stevenson, Ltd.
Duncan, Flockhart & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

Eucalyptus Oil
Allan, A. E.
British Drug Houses, Ltd., The
Stevenson, H. E., & Co.
Tasmanian Eucalyptus Oil Co.

Evaporators
Forshaw, E., & Son, Ltd.

Extract of Herbs
Newball & Mason
Potter & Clarke, Ltd.

Extracts (Medicinal)
Allen, Stafford, & Sons, Ltd.
Arnfield, J. C., & Sons, Ltd.
Burroughs Wellcome & Co.
EvansSonsLescher&Webb,Ld.
Gathergood's Exor.
Hewlett, C. J., & Son, Ltd.
Parke, Davis & Co.
Ransom, W., & Son, Ltd.

Factory, &c., Sites
Great Western Railway

Feeding Bottles
Bush, H. W., & Co., Ltd.
Maw, S., Son & Sons
Samson, Henry
Schutze, F., & Co., Ltd.

Filling Machines
Forgrove Machinery Co., Ltd.
Robert's Pat. Filling Mach Co.

Flycatchers
Ford, Shapland & Co.
Kay Bros., Ltd.
Smith, Jno. H., & Co.
Tunbridge & Wright

Foods, Invalid, &c.
Allen & Hanburys, Ltd.
Bell (John), Hills & Lucas, Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
British Milk Products Co., Ld
Fairchild Bros. & Foster
Frame Food Co.
Harker, Stagg & Morgan, Ltd.
Horlick's Malted Milk Co.
Lorimer, John
Lofthouse & Saltmer, Ltd.
Mellins Food, Ltd.
Natural Food Co., Ltd.
Numol, Ltd.
Plasmon, Ltd.
Reade Bros. & Co., Ltd.
Ridge's Royal Food Mills
Sister Lauras Infant Food Co.
Southall Bros. & Barclay, Ltd
Wander, A., Ltd.
Willows, Francis, B. & T., Ltd.
Woolley, Jas., Sons & Co., Ltd.
Wulfing, A., & Co.

Foot Appliances
Scholl Mnfg. Co., Ltd.

Fruit Drink
McGlashan, D.

Fuller's Earth
Mumford, G. S., & Sons

Fumigators
Sanitas Co., Ltd.
Seabury & Johnson

Glycerin
Price's Patent Candle Co., Ltd

Glycerophosphates
Reitmeyer & Co.

Grease Paints
Quelch, Henry C., & Co.

Grease Remover
Perkin & Co., Ltd.

Grinders, Drug, &c.
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis, B. & T., Ltd.

Gripe Water
Woodward, W., Ltd.

Gums
Fink, F., & Co.
Kidston, W. M., & Co.
Lambert, Saml., & Co.

Hair Dyes
Harker, C.R., Stagg & Morgan

Hair Preparations
Alexandre, L.
Auzora Perfumery Co.
Blackie, Robert
Edwards' "Harlene" Co.
Harrison, G. W.
Osborne, Garrett & Co.
Rohare's Aureoline
Sangers
Tokalon Ltd.

Hand Carts, Trucks, &c.
Crewe & Co.

Hat Cleaners
Christy, Thos., & Co.
Milner's Chemical Co.
Senier, Alfred, & Co.

Hat Dyes
Whitaker & Co.

Heating Appliances
Kyron Heat-Giver

Herbs
Potter & Clarke, Ltd.

Hexamethylentetramine
Reitmeyer & Co.

Homœopathic Medicines
Ashton & Parsons, Ltd.
Keene & Ashwell, Ltd.
Leath & Ross

Honey
Western Honey Co.

Horse Remedies
Harvey & Co. (Dublin), Ltd.

Hospital Furniture
Gray & Selby

Hospital Ware (Semi-porcelain)
Meinecke & Co.

Hot Air Douches
Ward & Goldstone

Hotels
Kingsley Hotel
Thackeray Hotel

Hot Water Bottles
Berton, Arthur, Ltd.
Burge, Warren & Ridgley, Ltd.
Fulham Pottery & Cheavin Filter Co., Ltd.
Galen Manfg. Co., Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Schutze, F., & Co., Ltd.
Tompkins, J., Ltd.
Toogood, William, Ltd.
Warne, Wm., & Co., Ltd.
Wood, Vincent

Hydrogen Peroxide
May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co. Ltd.

Hypophosphites
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

Infusions, Concentrated
Arnfield, J. C., & Sons, Ltd.

Ink, Dichroic
Bewley & Draper, Ltd.

Ink Powder
Webster, T., & Co.

Insecticides
Christy, T., & Co.
Cook, E., & Co., Ltd.

Insect Powder
Keating, Thomas
Potter & Clarke, Ltd.
Raimes & Co.

Lanoline
Burroughs Wellcome & Co.

Lard
Ewen, J., & Sons

Lavender Oil
Allen, Stafford, & Sons, Ltd.
Ransom, W., & Son, Ltd.

Lavender Water
Bush, W. J., & Co., Ltd.
Gosnell, John, & Co., Ltd.
Vinolia Co., Ltd.
Yardley & Co., Ltd.

Ligatures
Seabury & Johnson

Lime Juice and Cordial
EvansSonsLescher&Webb,Ld
Goodall, Backhouse & Co.
Idris & Co., Ltd.

Linseed, Crushed, &c.
Mumford, G. S., & Sons

Lints
Liverpool Lint Co.
Maw, S., Son & Sons
Robinson & Sons, Ltd.
Vernon & Co., Ltd.

Liquorice Juice
Apollo
Boehm, F., Ltd.
EvansSonsLescher&Webb,Ld
Jackson, Ernest, & Co.
Solazzi

Lithia Salts
British Drug Houses, Ld., The
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.

Loofahs
Hall Forster & Co., Ltd.
Internl. Sponge Importers, Ld
Solport Bros.
Swales, Thomas

Lozenges
Cartwright, W. B., Ltd.
Denoual, Jules, & Co.
Guest, Thos., & Co.
Jackson, Ernest, & Co.
Potter & Clarke, Ltd.
Raimes & Co.
Warrick Bros., Ltd.

Machinery, Pharmacal
Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Forgrove Machinery Co., Ltd.
Forshaw, E., & Son, Ltd.
Gardner, Wm., & Sons, Ltd.
Griffin, John J., & Sons, Ltd.
Pindar, J. W., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper, Ltd.
Wilkinson, S. W., & Co.

Magnesia and Preps.
Allen & Hanburys Ltd.
Ayrton, Saunders & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Henry, T. & W.
Howards & Sons, Ltd.
Jennings, Thos.
Phillips, Chas. H., Chem. Co.
Tokalon Ltd.
Washington Chemical Co., Ld.
Wigglesworth & Co.

Malt Extract and Preps.
Allen & Hanburys, Ltd.
Blackie, Robert
British Drug Houses, Ld., The
Burroughs Wellcome & Co.
Calder, James, & Co., Ltd.
Corbyn, Stacey & Co., Ltd.
Davies, Sons & Co
EvansSonsLescher&Webb,Ld
Fletcher, Fletcher & Co., Ltd.
Lorimer Marshall, Ltd.
May, Roberts & Co., Ltd.
Paine & Co., Ltd.
Pascall, James, Ltd.
Smith, T. J. & Nephew, Ltd.
Wyleys, Ltd.

Marking Ink
John Bond ("Crystal Palace")

Measures, Graduated
Bush, H. W., & Co., Ltd.

Meat Extracts
Armour & Co., Ltd.
Bovril, Ltd.
Brand & Co., Ltd.
Tooth's Extract of Meat Co.

Medical Coils
Ward & Goldstone

Mercurials
Alliance Drug & Chemical Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
Whiffen & Sons, Ltd.

Metal Clips
Griffin, John J., & Sons, Ltd.

Methylarsenates
Roques, Ferdinand

Methylated Spirit
Burrough, J., Ltd.
Preston's Liverpool Distillery
Randall & Son, Ltd. [Co., Ld.
Riddell & Smith
Thornley, Samuel, Ltd.

Metric Weights
Avery, W. & T., Ltd.

Milk Sugar
HollandscheMelksuikerfbrik

Mineral Waters
Camwal, Ltd.
CheltenhamNaturalWaterCo
Idris & Co., Ltd.
Ingram & Royle, Ltd.

Mixers and Sifters
Gardner, Wm. & Sons (Glos.) Ld

Motor Carriers, Vans, &c.
Tilling, Thomas, Ltd.

Mustard Seed Oil
Johnson, J. H. & S.

Naphthalene
Burt, Boulton & Haywood, Ld.

Night Lights
Price's Patent Candle Co., Ld.

Oils, Essential
Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chemical Co
Boake Roberts & Co., Ltd.
Boehm, F., Ltd.
Bonaventura, F., & Co.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
EvansSonsLescher&Webb,Ld
Lambert, Saml., & Co.
Lane Hall, R., & Co.
London Essence Co.
Lueders, George, & Co.
Poppelreuter W.
Ransom, W., & Son, Ltd.
Stevenson & Howell, Ltd.
Wright, Layman & Umney, Ld.

Oils, Mineral, Patty, &c.
Allen, Stafford, & Sons, Ltd.
Boehm, F., Ltd.
Price's Patent Candle Co. Ld
Stern Sonneborn Oil Co., Ltd.

Ointments
Blackie, Robert
Burgess, E.
Oldfield, Pattinson & Co.
Peat Products (Sphagnol) Ltd.

Olive Oil Soap
Boehm, F., Ltd.

Optical Goods
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Gunther Optical Co., Ltd.
Standard Optical Co.

Optical Tuition
British Optical Institute
College of Optics
Spectacle Makers Compan

Orange and Quinine Wine
Idris & Co., Ltd.
Millar, A., & Co., Ltd.
Robinson, B., & Co., Ltd.

Organo-Therapeutic Preps.
Armour & Co., Ltd.
Duncan, Flockhart & Co.

Otto Rose (Synth.)
Bush, W. J., & Co., Ltd.
Givaudan, L.
Kerfoot, Thos., & Co.
Stevenson & Howell, Ltd
Warrick Bros., Ltd.
Wright, Layman & Umney, Ld.

Otto Rose (French)
Gattefosse et Fils

Oxygen Baths
Wright & Co.

Packed Goods
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
British Drug Houses, Ltd., The
Cartwright, W. B., Ltd.
Corbyn, Stacey & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Christy, Thos., & Co.
Cupal, Ltd.
Davies, Sons, & Co.
Evans Sons Lescher & Webb, Ld
Goodall, Backhouse & Co.
Harker, C. R., Stagg & Morgan
Lofthouse & Saltmer, Ltd.
May, Roberts & Co., Ltd.
Oldfield, Pattinson & Co.
Potter & Clarke, Ltd.
Sangers
Shirley Bros., Ltd.
Southall Bros. & Barclay, Ltd
Standard Tablet & Pill Co., Ld.
Toogood, W., Ltd.

Palatinoids
Oppenheimer, Son & Co., Ltd.

Paper Handkerchiefs
Powell, J. T., & Co.

Paraffinum Liquidum
Browning, Wm., & Co.
Hertz & Co.
Stern Sonneborn Oil Co., Ltd.

Pastilles
Allen & Hanburys, Ltd.
Burroughs Wellcome & Co.
Evans Sons, Lescher & Webb
Guest, Thos., & Co.
Kerfoot, Thomas, & Co.
Wander, A., Ltd.
Warrick Bros., Ltd.

Patent Agents
Barker, R. W.
Raworth, John E.

Peppermint Oils
Allen, Stafford, & Sons, Ltd.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Ransom, W., & Son, Ltd.

Perfume Materials
Bonaventura, F., & Co.,
Bush, W. J., & Co., Ltd.
Givaudan, L.
Kerfoot, T., & Co.
Lane-Hall, R., & Co.
Lueders, George, & Co.
Naef, M., & Co., Sucers.
Wright, Layman & Umney, Ld.

Perfumes
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
British Drug Houses, Ld., The
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Erasmic Co., Ltd.
EvansSonsLescher&Webb,Ld
Gosnell, John, & Co., Ltd.
Lescol Perfumery Co.
Lorimer-Marshall, Ltd.
Pazery, Richard
Potter & Clarke, Ltd.
Price's Co., Ltd.
Prichard & Constance, Ltd.
Quelch, H. C., & Co.
Shirley Bros., Ltd.
Southall Bros. & Barclay, Ld.
Vinolia Co., Ltd.
Warrick Bros., Ltd.
West, T., & Son
Yardley & Co., Ltd.

Perles
Tye, John, & Son

Pessaries (Soluble)
Burge, Warren & Ridgley, Ld.
Rendell, W. J.

Petroleum Jelly
Chesebrough Manfg. Co.
Kidston, W. M., & Co.
Stern Sonneborn Oil Co., Ltd.

Phenacetin
Greeff, R. W., & Co.
Reitmeyer & Co.

Phosphorus and Preps.
May & Baker, Ltd.

Photo. Chemicals
Greeff, R. W., & Co.
Johnson & Sons (Manufactg. Chemists), Ltd.
Lane-Hall, R., & Co.
Reitmeyer & Co.

Photo. Goods
Ayrton, Saunders & Co., Ltd.
Burroughs Wellcome & Co.
Butcher, W., & Sons, Ltd.
EvansSonsLescher&Webb,Ld
Kent, G. B., & Sons, Ltd.
Lennon, Ltd.
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Rajar, Ltd.
Sangers
Wyleys, Ltd.

Photo. Postcards, &c.
Rajar, Ltd.

Pill Makers
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Howard Lloyd & Co., Ltd.
McKesson & Robbins
Standard Tablet & Pill Co., Ld.
Wand Manufacturing Co.

Pilocarpine
Roques, Ferdinand

Plasters
Allcock Manufacturing Co.
Dalmas, A. de St., & Co.
Galen Manufctg. Co., Ltd.
Seabury & Johnson

Plate Powder
Griffiths, T. D., & Co.

Pleated Paper
Darter, Wilkinson & Co.

Pocket Lamps Electric
Ward & Goldstone

Polishes (Various)
Bradley & Bourdas
Oakey, J., & Sons, Ltd.

Postal Boxes
Robinson & Sons, Ltd.

Powder Paper
Lorimer, Marshall, Ltd.

Printers
Ford, Shapland & Co.
Suttley & Silverlock, Ltd.
Townsend, J., & Sons
Waide, T., & Sons
Wilkinson, James F.

Proprietary Articles
Angier Chemical Co., Ltd.
Anglo-Amer. Pharm. Co., Ltd
Ashton & Parsons, Ltd.
Beecham, T.
Bell (John), Hills & Lucas, Ltd.
Bishop, Alfred, Ltd.
Bow's Liniment, Ltd.
Bresillon, M., & Co.
Bristol-Myers Co.
Browning, W., & Co.
Burgess, E.
Castle Laboratory
Christy, T., & Co.
Cockle, James, & Co.
Coleman & Co., Ltd.
Corbyn, Stacey & Co., Ltd.
Crimson Cross Dispensary,
Cupal, Ltd.
Daisy, Ltd.
Davenport, J. T., Ltd.
Delons, Ltd.
De Roos, Johnson & Co.
Duncan, Flockhart & Co.
Edwards, W., & Son
EvansSonsLescher&Webb,Ld
Expurgo Manfg. Co.
Fellows' Med. Manfg. Co.
Fennings, Alfred
Ferris & Co., Ltd.
Fulford, C. E., Ltd.
Goodall, Backhouse & Co.
Harrison, Geo. W.
Henry, T. & W.
Hommel's (Dr.) Hæmatogen
Kay Bros., Ltd.
Kutnow, S., & Co., Ltd.
Kyko Proprietary, Ltd.
London Proprietary Co.
Mandall & Co., Ltd
Martindale, W.
May, Roberts & Co., Ltd.
Midland Drug Co.
Morgan Jones & Co.
Mumford, G. S., & Sons
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Old Fort Chemical Co., Ltd.
Oppenheimer, Son & Co., Ltd
Owbridge, W. T., Ltd.
Peat Products (Sphagnol) Ltd.
Phillips, Chas. H., Chem. Co.
Pneumosan Company
Primer, J.
Resinol Chemical Co.
Sanalak, Ltd
Sangers
Sargol Co.
Scott & Bowne, Ltd.
Squire & Sons, Ltd.
Standard Tablet & Pill Co., Ld.
Thompson & Capper, Ltd.
Tokalon Ltd.
Tunbridge & Wright
Wander, A., Ltd.
Warrick Bros. Ltd.
White, A. J., Ltd.
Willcox, Jozeau & Co.
Woodward, W., Ltd
Wright & Co.
Wright, Layman & Umney, Ld.

Puffs
Schutze, F., & Co., Ltd.
Solport Bros.

Pyrogallic Acid
Greeff, R. W., & Co.

Quinine and Salts
Alliance Drug & Chem. Co.
Bandoeng Quinine Factory
Corbyn, Stacey & Co., Ltd.
Greeff, R. W., & Co.
Howards & Sons, Ltd
Reitmeyer & Co.

Razors
Hovenden, R., & Sons, Ltd.
Kelland, W. P.
Maw, S., Son & Sons
Wright, Archd. J., Ltd.

Resins and Resinoids
Allen, Staffo d, & Sons, Ltd.
Macfarlan, J. F., & Co.
Ransom, W., & Son, Ltd.
Smith, T. & H., Ltd.

Respirators
Zimmer & Co.

Rubber Goods
Altrincham Rubber Co.
Beeton Arthur, Ltd.
Burgs, Warren & Ridgley, Ltd.
Haywood, J. H., Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Warne, W., & Co., Ltd.

Rubber Stamps
Richford, C. D.

Salicylic Acid and Salicylates
Bush, W. J., & Co., Ltd.

Saponin
Field, C. W.

Scientific Apparatus
Perken, Son & Co., Ltd.
Pillischer, J.
Reynolds & Branson, Ltd.

Scales and Weights
Avery, W. & T., Ltd.

Sea Salt
Tidman & Son, Ltd.

Seed Dressing
Hawker, Arthur E.
Tomlinson & Hayward, Ltd.

Seeds
Potter & Clarke, Ltd.

Serums and Antitoxins
Allen & Hanburys, Ltd.
Burroughs Wellcome & Co., Ld.
Christy, T., & Co.
Evans Sons Lescher & Webb, Ld
Parke, Davis & Co.
Willcox, Josean & Co

Shampoo Powders
Standard Tablet & Pill Co., Ld.

Shares
McAdam & Tuckniss

Shaving Blocks
N. A. P. Co.

Sheep Dips
Burt, Boulton & Haywood Ld.
Tomlinson & Hayward, Ltd.

Shop Fittings
Ayrton-Graham, Ltd.
Cook, George
Evans Sons Lescher & Webb, Ld
Edmonds, A., & Co., Ltd.
Farley & Co.
Grant, D.
Harris & Sheldon, Ltd.
Josephs, Philip, & Sons, Ltd.
Maw, S., Son & Sons
Mills, H.
Parnall & Sons
Ruddock & Co.
Sangers

Shoulder Straps
Wood, Vincent

Signs, Electric, &c.
Universal Sign Works

Silverware Goods
Scott, Adolph

Soap-making Plant
Forsbaw, E., & Son Ltd.

Soaps, Toilet, &c.
Allen & Hanburys, Ltd.
Armour & Co., Ltd.
Bell (John), Hills & Lucas, Ld.
Bronnley, H., & Co., Ltd.
Calvert, F. C., & Co.
Chesebrough Manfg. Co.
Christy, Thos., & Co.
Cook, E., & Co., Ltd.
Erasmic Co., Ltd.
Eucryl, Ltd.
Evans Sons Lescher & Webb, Ld
Ewen, James, & Sons
Faulding, F. H., & Co.
Field, J. C. & J., Ltd.
Fulford, C. E., Ltd.
Gosnell, John, & Co., Ltd.
Harrison, G. W.
Hovenden, R., & Sons, Ltd.
Lescol Perfumery Co.
McChintons, Ltd.
Pears, A. & F., Ltd.
Price's Patent Candle Co., Ld.
Resinol Chemical Co.
Wright, Layman & Umney, Ld.

Sodium Bicarbonate
Brunner, Mond & Co., Ltd.
Howards & Sons, Ltd.

Soothers
Newbery, F., & Sons, Ltd.
Schutze, F., & Co., Ltd.

Sparteine
Roques, Ferdinand

Spectacles
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Gunther Optical Co., Ltd.

Spermaceti
Price's Patent Candle Co., Ld.

Sphygmometers
Hicks, James J.

Spices (Ground)
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.

Spirit of Wine
Burrough, J., Ltd.
Calder, James, & Co., Ltd.
Preston's Liverpool Distillery Co., Ltd.

Sponges
Internl. Sponge Importers, Ld.

Sprays
Benton & Stone, Ltd.
Burge, Warren & Ridgley, Ltd.
Christy, Thos., & Co.
Hovenden, R., & Sons, Ltd.
Marvel Company
Maw, S., Son & Sons
Parke, Davis & Co.
Sangers
Toogood, Wm., Ltd.

Sprinkler Corks
Betts & Co., Ltd.
Brooks, Peel & Co.

Spruce Beer
Hobson, Joseph, & Son

Starch
Corn Products Co., Ltd.
Mumford, G. S., & Sons

Stills
Bennett, Sons & Shears, Ltd.
Forshaw, E., & Son, Ltd.
Stokes, F. J., Machine Co.

Stoppers
Stipendum Stopper Co.

Surgical Appliances & Dressings
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Berton, Arthur, Ltd.
Burgoyne, Burbidges & Co.
Burroughs Wellcome & Co.
Bush, Henry W., & Co., Ltd.
Carnegie Bros.
Cuxson, Gerrard & Co., Ltd.
Dalmas, A. de St., & Co.
Darton Gibbs Co.
Galen Manfg. Co., Ltd.
Gimber, W., & Son
Gray & Selby
Haynes, G., & Co.
Liverpool Lint Co.
Macfarlan, J. F., & Co.
Marvel Company.
Mason Bros. & Chapman
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Reynolds & Branson, Ltd.
Robinson & Sons, Ltd.
Seabury & Johnson
Southall Bros. & Barclay, Ltd.
Thermogene Co., Ltd.
Van Horn & Sawtell
Vernon & Co., Ltd.
Warne, W., & Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

Suspensory Bandages
Bailey, W. H., & Sons

Syphons
Barnett & Foster
Camwal, Ltd.
Idris & Co., Ltd.
Pure Aeration Supply, Ltd.
Sharman's Pat. Syphon Co., Ld.

Syringes
Bush, H. W., & Co., Ltd.
Gray & Selby

Syrups, Medicinal
Arnfield, J. C., & Co., Ltd.
Fellows' Med. Mnfg. Co.

Tablet Machinery
Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Thompson & Capper, Ltd.
Wilkinson, S. W., & Co.

Tablets, Compressed
Allen & Hanburys, Ltd.
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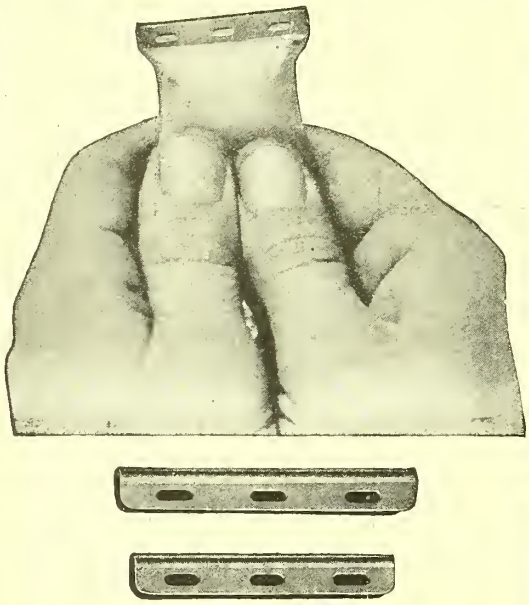

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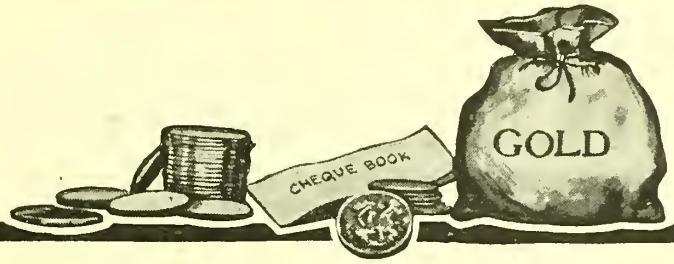

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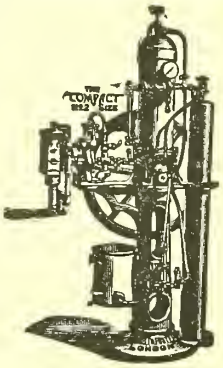

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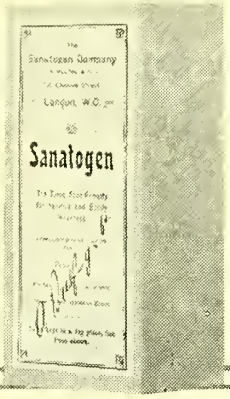

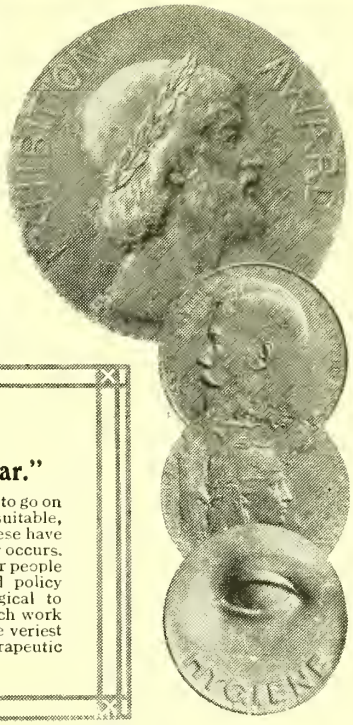

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THE FRENCH NATURAL MINERAL — WATER. —

VICHY-CÉLESTINS

DISORDERS of the LIVER, GOUT, Diabetes, Rheumatism, Gravel, &c.

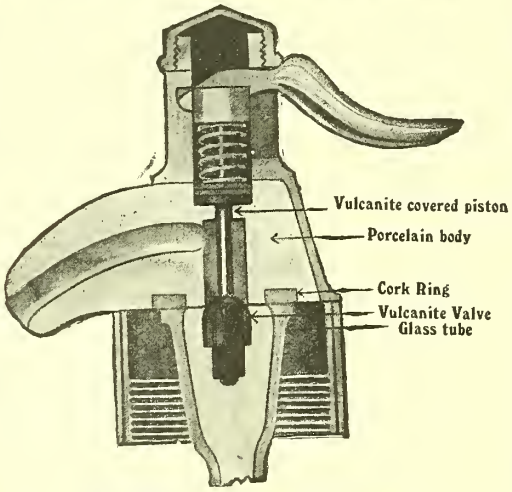
VICHY-ETAT PASTILLES.

Two or three Pastilles after each meal facilitate Digestion.

CAUTION.—Each Bottle from the STATE SPRINGS bears a neck label with the words "VICHY-ETAT" and the name of the SOLE AGENTS: INGRAM & ROYLE, Ltd., Bangor Wharf, 45 Belvedere Road, LONDON, S.E.

PROPERTY OF THE FRENCH GOVERNMENT.

D. A. LTD.



Gold Medal awarded, Odessa Exhibition, 1910

SYPHON SATISFACTION

secured by using Sharman's (patent) Hygienic Syphon.

Chemists are now becoming alert to the disadvantages of the ordinary Syphon. The usual heads are made of Tin, Lead, Antimony or Aluminium Alloys which dissolve in CO_2; therefore the water cannot be pure and its use may be attended with most serious results.

The head of Sharman's Hygienic Syphon is of solid porcelain and the valve and piston are covered with vulcanite.

BEWARE of infringement of Sharman's Patent Syphons. Makers and users are equally liable and will be promptly proceeded against.

TESTIMONY OF USERS:

"The most Perfect Hygienic Syphon on the Market."

If you contemplate filling your own Syphons apply here for up-to-date Electrical Plant.

SHARMAN'S PATENT SYPHON CO. LTD.
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"ASPIRIN" BRAND

Acetylsalicylic Acid

P. A. T. A.

25 × 5 gr. Tablets . . . 6/6 per doz.
100 × 5 gr. „ . . 20/- „

BRITISH MANUFACTURE.

THE BAYER CO., Ltd.

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TIDMAN'S SEA SALT.

ON P.A.T.A. LIST. INCREASED PROFITS TO ALL WHO KEEP IT IN STOCK.

Orders of Twenty Shillings value and upwards Carriage Paid—Cases Free, less 2½ % Discount for Cash.

	Advertised Price. Per Box.		Minimum Retail Price. Per Box.		Minimum Wholesale Price. Per Gross.
1d. Packets	1/-	...	12 in box 11d.	...	8/6
2d. „	2/-	...	„ 1/10	...	16/9
1d. linen Bags	1/-	...	„ 11d.	...	8/6
2d. „ „	1/-	...	6 in box 11d.	...	16/9
Boxes, about 1½lb.	4d.	...	3½d.	...	2/10 pr. doz.
„ „ 3½ „	8d.	...	7d.	...	5/8 „
„ „ 7 „	1/2	...	1/-	...	10/- „
„ „ 14 „	2/-	...	1/10	...	18/3 „

SINGLE BAGS of following 3 sizes sent CARRIAGE PAID to any place in the United Kingdom, so that there is no Stock to hold.

	Advertised Price.		Minimum Retail Price.		Minimum Wholesale Price.
28-lb. Bags (or Boxes)	3/- each	...	3/-	...	2/6 each
½-cwt. Bags	5/6 „	...	5/6	...	4/7 „
1-cwt. Bags	10/- „	...	10/-	...	8/4 „

The following are also sent, carriage paid, cases free, to any place in the United Kingdom, for net cash: 4—7 lbs. Boxes, **3/6** the lot; 6—7 lbs. Boxes and upwards at **10/-** per dozen (list price) Orders for assorted sizes to the value of **7/6** and upwards.

TIDMAN'S SEA SOAP, beautifully perfumed.

	Advertised Price.		Minimum Retail Price.		Minimum Wholesale Price.
Box of 3 large Tabs.	1/- each	...	10½d.	...	7/6 per doz. boxes
„ 6 small Tabs.	6d. „	...	5d.	...	3/9 „ „
Bars about ½-lb.	5d. „	...	4d.	...	3/- per doz. bars
„ „ 1-lb.	10d. „	...	8d.	...	6/- „ „

Accounts Monthly Net due 10th of following month. Terms for Seidlitz Powders, Pinnacle Soap Stands, Toilet Soaps, &c., sent on application.

TIDMAN & SON, Ltd., Wapping, London, E.

Chlorate of Potash
Chlorate of Soda
Chlorate of Baryum
Perchlorate of Potash
Perchlorate of Ammonia

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SOCIÉTÉ D'ELECTRO-CHIMIE, PARIS,
2 RUE BLANCHE.

A TONIC NERVE FOOD.
Tried and not found wanting.

READE'S
VIVADONE

(BRITISH MADE)

In Tins—**1/9**, **3/-**, and **5/6** each, with good profit to Retailer. Ask your Patent House for this.

READE BROTHERS & CO., LTD., WOLVERHAMPTON.

SAM^L LAMBERT & CO.,

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Importers and Exporters.

First hands for all

Estd. 1870.

CRUDE DRUGS & ESSENTIAL OILS.

A few Specialities :—

ARABIC GUMS, CASCARA SAGRADA, ERGOT, CITRIC ACID, COD LIVER OIL, CREAM OF TARTAR, GLYCERIN, HONEYS, MESSINA ESSENCES, OLIVE OIL, PEPPERMINT OIL, QUININE, QUICK-SILVER, RHUBARB, SARSAPARILLA, SHELLAC, TURPENTINE.

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Oils : Lemon, Bergamot, Orange ; Terpeneless Oils : Lemon, Bergamot, Orange.—*Fratelli de Pasquale & Co., Messina.*
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SPOT STOCKS *represent* **OUR**

"D&O" *Standard of Quality* **IN—**

OILS of
BAY, CEDARWOOD,
PATCHOULI, SASSAFRAS,
PEPPERMINT, ETC.

BALSAMS of
Copaiba, Peru, Tolu.

Send for Quotation.

"The Standard of Purity."

SOFT PARAFFIN
(Par. Molle) B.P.

White, Half-White & Coloured Oils

Light and Dark Yellow.
Light and Dark Green, Red, etc. etc.

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(B.P. and Technical Qualities)

White, Yellow, Cream, Ruby, etc.

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51 Royal London House, Finsbury Square, London, E.C.

The number of dentifrices is myriad, their names are legion.
But—
in principle and in efficiency there is but one,

CALOX

THE OXYGEN TOOTH POWDER.

Its principle is the evolution of oxygen.
Its efficiency as a cleanser of the teeth is due to the oxygen which it generates when used.

Not only antiseptic, but deodorant, two desirable properties of a tooth powder. Its oxidizing and deodorizing power was obvious in our experiments.—THE LANCET, *London, Eng.*

Possesses not only strong antiseptic, but deodorizing and oxidizing properties, as the result of which the teeth, after a few days' use of CALOX acquire a pearly whiteness.—THE CHEMIST AND DRUGGIST, *London.*

CALOX is entirely different from other dentifrices. Its introduction marks a decided advance in the scientific development of a dentifrice, a fact which the dental profession the world over has been quick to recognise. Chemists should interest themselves in Calox because only a chemist can explain the peculiar virtues and value of an oxygen-producing dentifrice.

Price to the trade, 9/6 per dozen on the P.A.T.A plan.

McKESSON & ROBBINS, New York, U.S.A. *Manufacturers.*
BRITISH DEPOT— G. B. KENT & SONS, Ltd., 75 Farringdon Road, London, E.C.

METHYLATED SPIRIT

Buy from one of the Oldest Houses in the Trade.
Write for Prices. **ESTABLISHED 1794.**

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OKELL'S ORIGINAL MONA BOUQUET

(First introduced by the late JOSEPH O'KELL).

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling perfume in the market.
Retail Prices ... 1/-,1/9, 3/6, 6/-, 7/6, 10/6, per Bottle,
ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by
THOMAS WEST & SON, 1187 Chester Road, Stretford. **MANCHESTER.**

SUPPORT HOME INDUSTRIES.

BUY KENT'S BRUSHES.

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EAU DE COLOGNE

Manufactured in Great Britain.

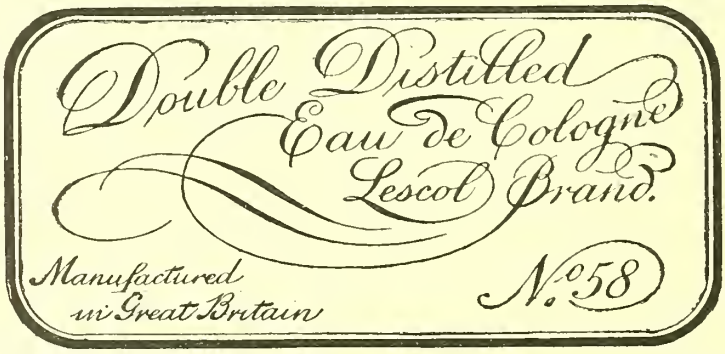
LESCOL BRAND No. 58.

FINEST VALUE IN COLOGNES IN THE MARKET.

	Per doz.
1 oz. ...	3/3
2 oz. ...	5/6
4 oz. ...	9/4

IN WICKERED.

	Per doz.
2 oz. ...	7/-



IN WICKERED.

	Per doz.
4 oz. ..	12/6
½ pint ...	17/-
1 ,, ...	29/2
Quart ...	52/9

Very acceptable and necessary Presents for the Sick.

THE LESCOL PERFUMERY CO., Tel. No.—Hop 810. Telegrams—"Vanilin-Camber, London."
LOMOND GROVE, CAMBERWELL, LONDON, S.E.

KOLYNOS
DENTAL CREAM

Worthy of your recommendation.

The leading dentifrice. Sales increasing every month.

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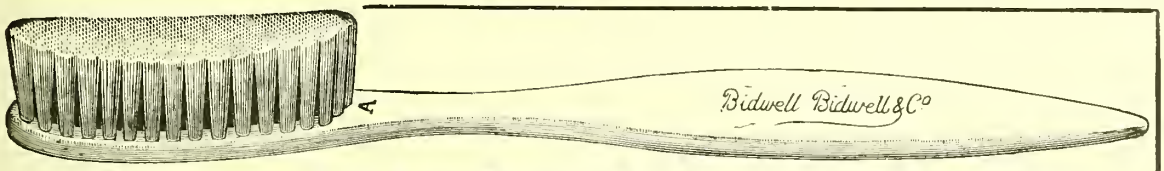

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NO LOOSE HAIRS.

Please send for Catalogue—

BIDWELL, BIDWELL & CO., Ltd., AXMINSTER, DEVON.

BRITISH-MADE BOXES to take the place of GERMAN CHIP BOXES.

Ointment Tins.

	Per gross.
3 dr. ...	1/9
½-oz. ...	1/9
1-oz. ...	2/9
2-oz. ...	4/9

3d. per gross rebate on orders of 10 gross and upwards.

'Willowette' Boxes (Absolutely Greaseproof).

	2 drm.	½-oz.	1-oz.	1½-oz.	2-oz.	3-oz.	4-oz.	6-oz.	8-oz.
*Deep	-	10d.	11d.	1/2	1/5½	2/-	2/9	3/3	4/6	5/6

Actual capacity, 2-drm., ½-oz., 1-oz., 1½-oz., 2-oz., 3-oz., 4-oz., 6-oz., & 8-oz.

	2-drm.	½-oz.	1-oz.	1½-oz.	2-oz.	3-oz.	4-oz.	6-oz.	8-oz.
*Cut-Down	10d.	10½d.	1/1	1/4	1/10	2/6	3/-	4/-	5/-

Actual capacity, 2-drm., 3-drm., ½-oz., 1-oz., 1½-oz., 2-oz., 3-oz., 4-oz. & 6-oz.

*When ordering, use these sizes—not actual capacity.

Nested, deep, including ½ oz., 1-oz., 1½-oz. and 2-oz., 5/3 per gross.

'Greaseproof' Boxes
Brown Leatherette.

ORDER AS		CAPACITY	
1 oz.	Cutdown ...	½ oz.	1/- per grs.
1½ ,,	,, ...	1 ,,	1/6 ,,
2 ,,	,, ...	1½ ,,	1/10 ,,
2 ,,	Deep ...	2 ,,	2/- ,,
3 ,,	,, ...	3 ,,	2/6 ,,
4 ,,	,, ...	4 ,,	3/- ,,

Samples Free on Application.

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CLINICAL
THERMOMETERS.

Best Quality at Lowest Prices

WRITE FOR PRICE LIST.
40 DIFFERENT KINDS.
Special Quotations to Wholesale Buyers

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CLINICAL THERMOMETER.
P.A.T.A.

MERCURY COLUMN SEEN AT A GLANCE.
Made in Two Rapidities, 1 Minute and ½ Minute.

New Price List of Thermometers for every purpose, post free.

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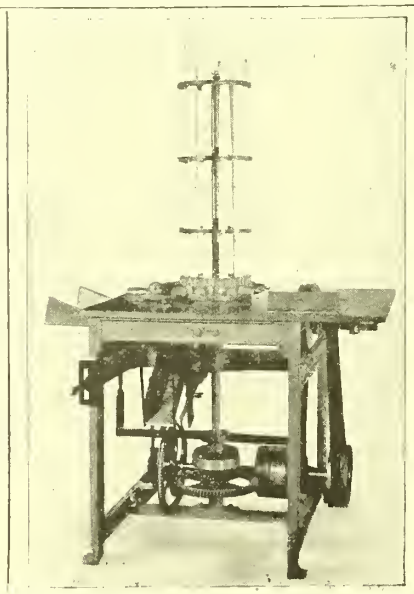
SURGICAL BANDAGE MACHINERY

Complete Plant for Making Bandages.

CLOTH ROLLING & MEASURING MACHINE
BANDAGE PAPERING MACHINE.
BANDAGE CUTTING MACHINE.

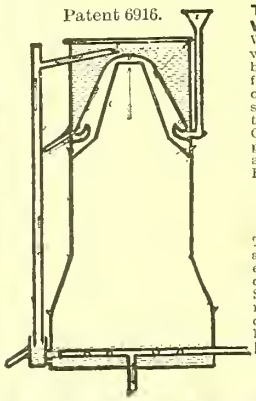
BANDAGE CUTTING MACHINE



CUTS — 66 — BANDAGES PER MINUTE

Prices and Particulars on application to Patentees & Manufacturers
THOMSON-KNOX COMPANY 8-12 Maxwell Street, GLASGOW.

Patent 6916.



TO MANUFACTURING AND WHOLESALE DRUGGISTS, &c.

We beg to call attention to the fact that our well known Patent Stills are made for heating by steam pressure. Where this is available it forms a very cheap and efficient method of obtaining distilled water. Any pressure will suit from 10 to 200 lb., made in various sizes to produce from 1½ to 15 gallons PER HOUR. Cost of distilled water made this way is practically nil. As with our Gas Stills, these are perfectly automatic. Prices as below:—

For producing up to

1½ gallons per hour,			£3 10 0
,, 5	,,	,,	£10 0 0
,, 9	,,	,,	£12 10 0
,, 15	,,	,,	£16 10 0

The few most important places we give below afford evidence of the quality, efficiency and economy of the Steam Stills:—National Physical Laboratory, 2 in use; Imperial College of Science, 8 in use; University of Wales; Pharmaceutical Society; Guy's Hospital, Bacteriological Department; and many of the leading Breweries and Drug Houses, etc. etc.

Pamphlets & particulars forwarded on application
Estimates submitted free if required for supplying and fitting complete.
BROWN & SON, Muriel St., King's Cross, London, N.

SHOP FITTINGS, SHOW CASES, SIGNS,
&c. &c.

Of Best Quality, Excellent Style, High-class Finish, at Lowest Prices.

SHOPS MODERNISED. ESTIMATES FREE.
Competent Fitters sent to all parts.

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Poudre
Fascination de Tokalon

The Genuine French Complexion Powder which is prepared by the Special Tokalon "Air-Floated" Process.

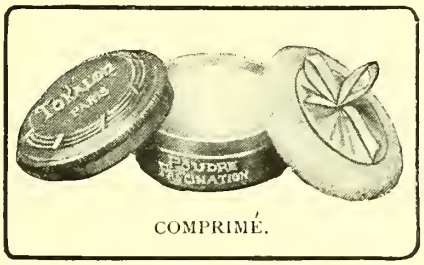
The novel method by which this delightful Powder is manufactured, renders it so exceptionally fine that it is entirely invisible when applied to the skin. It is also much more adherent and softer than powder prepared by any other means and it possesses a most attractive and pleasing perfume.

PRICES :

Large Size, 2/11 Small Size, 1/9
Comprimés (Compressed Cakes) as illustrated.
Gold-plated box and puff, 1/9 Aluminium box and puff, 1/-

Poudre Fascination de Tokalon is enormously popular among the most beautiful French women because of its unequalled qualities as a complexion powder. It is now being so extensively advertised in the United Kingdom that all chemists without stock should order immediately and be in a position to supply the demand which is bound to result.

Send P.C. for the new Tokalon Price List, and particulars of how you can make 50 % profit on all Tokalon Toilet Preparations as manufactured by Tokalon of Paris.



COMPRIMÉ.

TOKALON LIMITED,
212/214 Great Portland Street, London, W.

6d.

Make your old Hat a new one.

In bottles, 6d. each, in separate neat cartons, with suitable brush.

These Dyes are a distinct invention, dyeing the straw without an objectionable varnished appearance, and producing the effect of new goods.

NO GLOSS.
NO POLISH.

On the P.A.T.A.

Write for terms, patterns, also leaflet of testimonials.

"Luton" HAT DYE

WHITAKER & CO., COLOUR WORKS, KENDAL, ENG.
London Depot: 60-62 Clerkenwell Road, E.C.
"Glossy" Series supplied if desired.
Special Non-Inflammable Series for Export. *Est. 1878.*
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BEETHAM'S
"LAROLA"
(Registered)

Is the Skin Tonic for 1915.

It is effective.
It is attractive.
It is price-protected.
It is well-advertised.
It sells readily.
It bears a good profit.

HAVE YOU OUR SHOWCARD?

THIS IS WHAT THE "C. & D." SAYS OF IT:

BEETHAM'S NEW SHOWCARD.—One of the prettiest lithographic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in., and is all roses, even the word 'Larola" being formed from prickly rose-stems. The fair rose-gatherer has rosy cheeks, and she and the setting make so bright a picture that no pharmacy will be complete without it. Copies can be obtained from Messrs. M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumber and Larola.

This handsome Showcard, in 14 colours (size 24 by 17) can be had by any chemist who will give it a good place in his pharmacy.

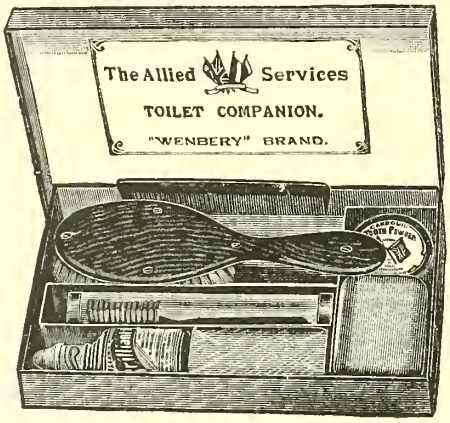
M. BEETHAM & SON, Cheltenham.

Silver-mounted Scents of every description.

HAIR BRUSHES. CLOTH BRUSHES.

MIRRORS, in Silver, Ebony, Celluloid, and Electro-Plate.

ADOLPH SCOTT, Gt. Hampton Street, BIRMINGHAM.



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ALLIED SERVICES

TOILET COMPANION

Contents.—Hair Brush and Comb, Brilliantine, Nail Brush, Tooth Brush in Case, Tooth Powder, and Soap in Case. The Outer Case secured with neat strap.

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SELF-FIXING & AIR-TIGHT

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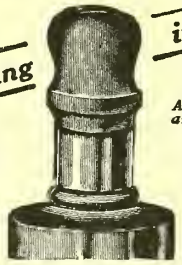

Far superior to Pleated Paper or Leather Cappings

NO INCREASE in prices.

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SCENT SPRINKLERS
COLLAPSIBLE TUBES
Decorated Tin Boxes & Canisters

Manufactured by

The JOHN DALE Mfg. Coy.,
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For
FOUNTAIN
PENS
and all Pens
the Best.

Dichroïc Ink

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Proprietors:

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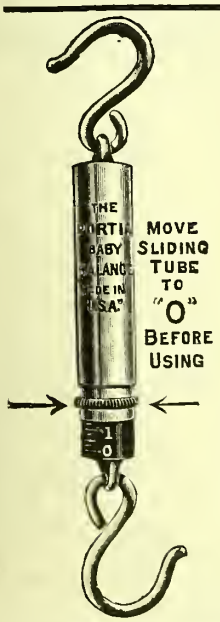
A Profitable Seller



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(Regd.)
NET WEIGHT
Baby Balance
Weighs up to 15 lb.

Price	Retail
11/6	1/6
dozen.	each.

Hang a balance in your window with our dainty cut-out showcard in colours on the lower hook, showing a baby actually being weighed, and you will soon be re-ordering.

SOLPORT BROS.,
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Obtainable through all Wholesale Houses.

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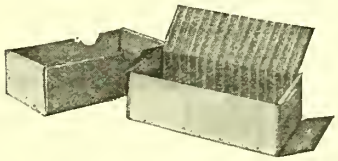
POSTAL BOX
(PATENT)

IS A RELIABLE
BOX TO USE

A POSTAL BOX MUST BE LIGHT, TO SAVE POSTAGE, AND STRONG TO SAVE BREAKAGES. BECAUSE OF ITS PATENTED FEATURES AND CAREFUL MANUFACTURE THE "EVEREADY" POSTAL BOX COMBINES THESE TWO QUALITIES IN THE HIGHEST POSSIBLE DEGREE



NOTICE ITS STRONG POINTS:

THE LID IS THE SAME DEPTH AS THE BOX. THERE ARE THREE THICKNESSES OF MATERIAL ROUND EACH SIDE OF THE BOX.

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NO GLUE—NO SEALING WAX—NO MESS.
JUST PUT THE LID ON AND
IT IS READY FOR THE POST.

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CHEMIST TRADE.
CHESTERFIELD & LONDON.

TRADE MARK.

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CRISTALINE ANTISEPTIC SHAVING **BLOCK** THE ORIGINAL

BAFFO MOUSTACHE FIXER & TRAINER CONTAINS NEITHER GREASE NOR WAX, BUT IS FIXED BY BAFFO APPLIED TO BRUSH.

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SPECIALITIES:—Gums Arabic and Tragacanth as imported or finely powdered.—Dextrine, Camomiles, Honey. Waxes of all kinds for Boot Polishes, &c.

PRECIPITATED CHALK.
Lightest and Whitest, also Purest Dense.
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Precipitated Chalk, Hyposulphite of Soda, Sulphite of Soda, Glauber Salts, Epsom Salts Salts of Tartar, Alum, Sulphite of Lime, Sulphide of Sodium.

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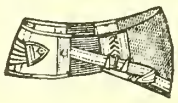

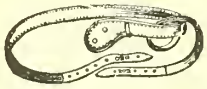

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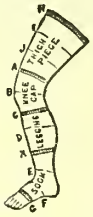

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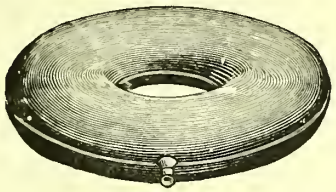

Fig. 1194.

BRITISH MAKE.

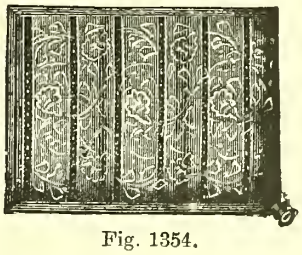

Fig. 1354.

Fig. 1194.—The **"Empire"** red india-rubber Air Cushion—

DIAMETER	14	15	16	17	18	19	20 in.
each	6 0	6 6	7 0	8 0	9 0	10 0	12 0

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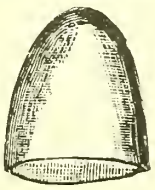

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In the Coloured Supplement.

Australian News.	Netherland Notes.
Coming Events.	New Books.
Dogs and Cats.	South African News.

Summary.

An A. & H. assistant has been killed in action (p. 40).

Mr. E. J. Parry criticises the B.P. monographs on essential oils (p. 57).

The supply of salicylates is one of the subjects dealt with in "War Sidelights" (p. 48).

Associated trade-marks are of special interest at present, and are explained in an article beginning on p. 49.

Mr. Edmund White, President of the Pharmaceutical Society, has sent New Year's greetings from Ceylon (p. 42).

The Pharmaceutical Council advises chemists to sell tr. opii, B.P. 1914, for laudanum (p. 43). See also p. 47 and p. 58.

Dr. Dobbie, Principal of the Government Laboratory, is to be knighted. This and other New Year's honours are mentioned on p. 36.

The export and import trade of the United Kingdom was good in spite of the war, the values showing only 13 per cent. of a decrease (p. 46).

Japan is supplying Russia with absorbent cotton. A correspondent who has recently travelled through Russia writes about this and other war-supply matters (p. 34).

The new British Pharmacopœia provides a crop of interesting paragraphs on pp. 45 and 46. The Medical Council of the Orange Free State has fixed July 1 for its enforcement (Coloured Supplement).

The New Year finds wholesalers and manufacturers busy, but trading in Mincing Lane has barely opened yet. Market changes include an advance in English castor oil, glucose, antimony, shellac, and peppers. Star-anise oil, lime oil, formaldehyde, hexamine, and cream of tartar are selling in buyers' favour (p. 54).

Winter Issue of the "C. & D."

For this issue, to be published on Saturday, January 30, the Publisher will accept circulars and price-lists for insertion as insets. Full particulars may be obtained from him on application.

European War.

Pharmaceutical Roll of Honour.

Non Sibi sed Patriæ.—CICERO.

SIXTEENTH LIST.

BARCLAY, Second-Lieut. Edward D. (youngest son of Sir Thomas Barclay, chairman of Southall Bros. & Barclay, Ltd., Birmingham), 11th Batt. Worcestershire Regiment, Kitchener's Army, from O.T.C. Cambridge (Caius College).

BLAND, Horace, Ph.C., Spalding, 49th Field Ambulance, R.A.M.C.

CAMPBELL, Hugh V. (assistant with Mr. D. Moir, chemist, Shawlands, Glasgow), R.A.M.C.

CLUGSTON, W., chemist and druggist, dispenser, Fort Pitt Medical Hospital, Chatham.

CULLWICK, Lieut. Ronald (elder son of Mr. H. E. Cullwick, chemist and dental manufacturer, Wolverhampton), 5th North Staffordshire (Prince of Wales') Light Infantry (Reserve Battalion).

GREEN, H. R. (formerly assistant with Mr. H. T. Chettle, chemist, Clevedon), R.A.M.C.

MATTHEWS, Eric (son of Mr. J. H. Matthews, of Matthews & Son, Leytonstone), 3rd Batt. Honourable Artillery Company.

PAGE, Frank (formerly assistant with Mr. H. T. Chettle, chemist, Clevedon), "Bristol's Own" Battalion Gloucestershire Regiment.

POUCHER, W. A., Ph.C. (lately with Allen & Hanburys, Ltd., Lombard Street, E.C.), dispenser, Military Hospital, Purfleet, Essex.

ROBB, W. Austin (former apprentice of Mr. W. Buddles, chemist, Churton Street, London, S.W.), R.A.M.C.

SUMPTION, Sergt. F. B., B.A. (Lond.), chemist and druggist, Blackwood (Mon.), 1st Welsh Ambulance, R.A.M.C., Welsh Army Corps.

WHITE, Second-Lieut. Jack, Northamptonshire Regiment, and Second-Lieut. Karl White, Leicestershire Regiment (sons of Mr. Edmund White, B.Sc., President of the Pharmaceutical Society of Great Britain).

YOUNG, Lieut. Keith (son of Mr. J. Rymer Young, Ph.C., Warrington), Lancashire Fusiliers.

An Ambulance Construction Commission.

Mr. Henry S. Wellcome is presenting 2,000*l.* to be awarded in prizes for the best plans and designs of a body for, and improvements in, field motor-ambulances. The first prize will be 1,000*l.*, the second 500*l.*, the third 300*l.*, and the rest is to be awarded in smaller sums. The following Commission has been appointed to collect, report, and judge upon plans, designs, and ideas submitted, and to award the prizes:

Chairman: Sir Frederick Treves, Bart., G.C.V.O., C.B., F.R.C.S. (British Red Cross Society).

Major-General Sir John Cowans, K.C.B., M.V.O., Quartermaster-General to the Forces (represented by Brigadier-General S. S. Long, C.B., and Colonel H. C. L. Holden, C.B.).

Surgeon-General Sir Arthur May, K.C.B., Director-General, Medical Department, R.N. (represented by Deputy-Surgeon-General McNabb).

Surgeon-General Sir Alfred Keogh, K.C.B., Acting Director-General, Army Medical Service (represented by Lieutenant-Colonel H. E. R. James, C.B.).

The Right Hon. Sir Claude Macdonald, P.C., G.C.M.G., K.C.B., and Sir John Furley, C.B. (St. John Ambulance Association).

The Right Hon. Lord Montagu of Beaulieu.

Professor W. E. Dalby, M.A., F.R.S., M.Inst.C.E.

Mr. John Robertson.

Hon Secretary and Treasurer: Mr. Andrew Balfour, C.M.G., M.D., Director-in-Chief Wellcome Bureau of Scientific Research.

The Secretary is Mr. Hardress O'Grady, and the headquarters are at the Wellcome Bureau of Scientific Research, 10 Henrietta Street, London, W.

In the Trenches.

Mr. George Daniel, chemist, 272 High Road, Wood Green, N., has received an interesting letter from his former assistant, Mr. J. F. Haggerty, who is now serving in Flanders. We are indebted to Mr. Daniel for a loan of the letter and permission to publish the following abstract:

"The enemy's trenches are about 500 yards from ours, and their snipers are very active, especially at night. The

nights have been very dark, and so we have to keep a sharp look-out, as they fire at our loopholes, or at anything they fancy is moving. This is the most trying time, and we get all kinds of alarms. . . . The Germans shelled us very vigorously about four days ago, and one shell fell 6 yards or so away from me. Luckily it did not happen to explode, or I might not have been writing this letter. It has rained every day, or rather night, for over a week, and our feet are one of our greatest troubles. They not only get sopping wet, but freeze as well. Mine have not been dry for over a week. . . . After being in the trenches a fortnight we were given four days' rest a few miles away; then another ten days in the firing line, and now we have come out for another rest and, I hope, some sleep. The 'rest' consists chiefly, however, of cleaning up rifles, equipment, and clothing, as far as possible, and last, but not least, ourselves. In the trenches you don't get much sleep, as we take it in turns, one man in a small section, to go on guard during the day, and at night one man in three is up at the loopholes all the night. We make dug-outs, but these often leak, and several have fallen in recently owing to the clay giving way after the heavy rains. I expect we shall return to the trenches in a few days, and no doubt spend Christmas in them. It certainly will be an eventful Christmas this year for many of us, a Christmas without parallel. My thoughts will turn to the Old Country and old friends, and especially to my dear father, mother, and sister, who, I know, are worrying an awful lot."

Belgian Doctors' and Pharmacists' Relief Fund.

During the week ending January 5 the following subscriptions from the drug-trade have been received :

	£	s.	d.
Mr. A. H. Bell	1	0	0
Mr. H. J. Kluge	3	3	0
Leeds Chemists' Association	56	12	0
Mr. P. H. Marsden	1	1	0
Reynolds & Branson's employés	5	5	0

In addition, several of the subscriptions promised by councillors of the Pharmaceutical Society have been paid. The Secretaries have received correspondence showing that interest in the movement is spreading. The objects of the Fund, which aim at alleviating the misfortunes of Belgian doctors and pharmacists, both those remaining in Belgium and those who are refugees in this country, have been seen to concern closely the members of the two professions in this country, and the response to appeals for the Fund has been considerable. An appeal is now being distributed by the Executive Committee of the Fund which it is hoped will be followed by more general support. This is in the form of a four-page circular, which gives also a list of subscribers up to the present. Subscriptions to the Fund should be sent to the Hon. Treasurer, Dr. H. A. Des Voeux, 14 Buckingham Gate, London, S.W.

Where Japan Comes In.

A correspondent in Hong-Kong (218/11), writing on November 29, says :

An item of news that may interest your readers is that the Russian Government have just placed an order for 20,000 poods of absorbent cotton with a Japanese firm. A pood is about 36 lb. This is to be sent to the theatre of war *viâ* the Siberian railway. Distance is no object to Russia when she wants anything, and she was sending bedsteads that way *viâ* Harbin a few weeks ago. I went up to Vladivostock to try and secure an order for surgical dressings for a well-known American firm, but, as written above, for the present the Japs have beaten us. However, a whole lot more is, and will be, wanted, and our turn may be next. All the same, the Japanese are pretty bad as rivals, and this war is going to do them a whole lot of good in the way of opening up new markets in Russia, China, and India.

I could write quite a lot about the state of the drug-trade in Eastern Siberia, but, in justice to my employers, don't care to do so. The Russian army is much improved, and is really in earnest over this war, which is popular. The rank and file are excellent material, and are well shod (their long boots are really good) and not badly equipped (though not, of course, as well as our Indian Army). They are quite enthusiastic about the war, and will do well. The little red cross flag enclosed is one of millions sold in the streets in Russian towns by ladies collecting for the Russian Red Cross Society. They (the ladies) pin them in your coat, and you pay what you like, and fifty in your coat does not protect you from the fair sellers. One word more. There is not a drop of alcohol to be got for love or money. This is really wonderful for Russia, and as far as can be seen very good for the people.

The Germans have been very strong in Russia, coming in, as they did, under a favourable import-duty as compared with other countries. But the Government now says, "In future all will be treated alike."

According to the "Chemiker Zeitung" (December 19), the Japanese Government has sent a committee of experts to the countries at war with Germany and to neutral countries to investigate the possibility of Japan supplying those countries with various articles previously obtained from Germany.

Miscellaneous.

T. & H. Smith, Ltd., Edinburgh and London, have presented 200 lb. of chloroform to the Serbian Red Cross authorities for the use of the Serbian Army Medical Service.

MANCHESTER MEN.—Of 134 men eligible for service in the Manchester branches of Boots Cash Chemists, Ltd., twenty-two are serving with the Forces. James Woolley, Sons & Co., Ltd., Manchester, have furnished thirty-eight men for Army and Navy, or 25 per cent. of the employés eligible.

EXPORTATION OF OILS.—By a Proclamation gazetted on January 5 the exportation is prohibited to all foreign ports in Europe and on the Mediterranean and Black Seas, other than those of France, Russia (except Baltic ports), Belgium, Spain, and Portugal, of fish (whale) oil—viz., train, blubber, sperm, or head matter.

The Board of Trade announce that steps will shortly be taken for the issue of an Order of Council or Proclamation removing the existing prohibition on the export of tea to certain destinations, and that arrangements will be made for the immediate suspension of the prohibition pending the issue of the Order or Proclamation in question.

Sir Henry Norman, M.P., has, with Lady Norman, been spending the recess at Wimereux, in France, where he has had charge of a hundred wounded soldiers in one of the hospitals. One of the patients has been awarded the V.C. The whole of the motor-service is looked after by Sir Henry Norman, the fleet including eight motor-ambulances and a motor-lorry.

Mr. Arthur L. Burgess, chemist and druggist, New Road, St. Sampson's, Guernsey, a member of the Guernsey Committee for Helping Wounded Soldiers in French Hospitals (*C. & D.*, December 5, 1914, p. 34), desires to acknowledge gifts from Mr. G. H. Dawson, chemist and druggist, Southend-on-Sea, 1*l.*; Jeyes' Sanitary Compounds Co., Ltd., 1 gal. Jeysol, 40 oz. Medical Cyllin; Mr. and Mrs. F. Weight, London, large parcel of tea.

SULPHURIC ACID AS A NECESSITY.—A writer in "Nature" comments upon the necessity of sulphuric acid in almost every branch of chemical-industry. Liebig once said that we might gauge the civilisation of a country by the amount of this acid it consumed. It would appear, therefore, that the continued forcible dissemination of German "culture" is largely dependent upon a German supply of oil of vitriol. It is some satisfaction to know that there is a risk of Germany's ability to maintain her supply, being adversely affected by the difficulty in obtaining the raw materials.

THE FACTOR OF ORGANISATION.—The "British Medical Journal" remarks that the scientific temper in its highest form is marked by modesty, toleration, and balance of judgment. It proceeds to criticise the attitude of Professor Ostwald, to whom the Nobel Prize for Chemistry was awarded in 1909, in justifying the methods of Germany to her enemies, and denying facts in the face of the most positive and palpable evidence. This "intellectual" was sent to Sweden to enlighten the minds of Scandinavian neutrals as to the mission of Germany in an uncultured world. It was in his laboratory, it is said, that inflammable pastilles were devised for facilitating the burning of houses in the countries invaded by Germany. He states that Germany wants to "organise Europe, which has not yet been organised." It is a pitiable sight when men talk such drivel in the name of science.

PREVENTING FROSTBITE.—A correspondent has had a conversation with an Army doctor, who has told him that a leading shipbuilder has been much concerned about our men being in the trenches so long up to their ankles and knees in water, and has been experimenting with a view to a remedy. He had a trench dug, and got a man to stay in it so deep in water as much near like the fighting-line conditions as possible, and noted that the reduction in body temperature was about 4.5° F. Next day the same man had his legs and stockings and boots well coated with cod-liver oil, and after standing in the trench the same time his temperature went down only 0.5° F. The

result was given to the proper authorities, and it is understood that about 1,000 gals. of oil has been sent to the Front. [This seems rather an expensive and clumsy way of waterproofing. The reduction in temperature is due to body-heat being used to raise the temperature of the water next the skin; exclude the water and heat-waste is reduced.—EDITOR *C. & D.*]

Personalia.

Mr. W. H. Grimshaw, ex-President of the North-East Lancashire Chemists' Association, has been appointed representative of the Association on the local War Relief Committee.

Sir William Lever, Bart., has joined the Birkenhead and District Volunteer Training Corps (Port Sunlight Company). Sir William, who is sixty-two years of age, takes his place in the ranks for drilling.

Mr. L. H. Hanson, of W. H. Hobbs & Co., Ltd., Trinity Place, London, E.C., has been gazetted second lieutenant in the Westminster Dragoons. Mr. Hanson has been serving with the Duke of Cambridge's Hussars.

Mr. H. E. West Taylor, founder and Hon. Chairman of the Old Boys' Corps, which was inaugurated on August 17, is the subject of an appreciation in "The Volunteer Training Corps Gazette." Mr. Taylor is the secretary of Aerators, Ltd., and a Wykehamist.

Mr. Percy J. Ashfield, chemist, Rhyl, was the moving spirit in an entertainment to the officers and men of the South Wales Battalions at the Rhyl Pavilion on December 29. The function took the form of a smoking-concert, with tea, etc., an excellent programme being submitted. Mr. Ashfield, at the outset of the proceedings, welcomed the soldiers and wished them the compliments of the season.

Mr. George Weddell, of Seaton Carew, West Hartlepool, whose recruiting verses were printed in the *C. & D.*, January 2, p. 36, has published privately these with other verses entitled "Kultur" and "Germany and the Kaiser," a recital in five sonnets. The last one concludes thus:

"The name of German for a hundred years
Will stand for treachery, murder, pillage, tears,
And all that once distinguished Vandal and Hun.
Henceforth your word and bond are things suspect
(As German silver is but tinkered brass).
Men will in home and market recollect
Your broken troth, and move to let you pass,
A leper on the earth that you have scourged,
Until the Prussian in you is wholly purged."

We learn that Mr. Heinrich B. Helbing, F.C.S., of London and Darmstadt, who was confined as a civil prisoner of war at Ruhleben, Berlin, was released early in December on account of illness. Since then the German Government has intimated that all British civil prisoners who are beyond military age are to be released on condition that they leave the country within a prescribed time. Mr. Helbing would, in any circumstance, have come under this order. He is a native of Darmstadt, and, after qualifying as an apotheker, came to London about thirty years ago with the object of starting in practice as an analytical and professional chemist, but for the first few years he acted as chief dispenser at the German Hospital, Dalston, subsequently starting in practice at 81 Queen Victoria Street, E.C. There he was joined later by Dr. Francis W. Passmore, son of the late Mr. F. Passmore, for many years assistant editor of "The Pharmaceutical Journal." Together they built up a large and special practice, which still continues. Some years ago Mr. Helbing's health became precarious, when he and his family removed to Wiesbaden, and he only occasionally returned to London. Long before he went to Wiesbaden Mr. Helbing became a naturalised British subject. He has been a Fellow of the Chemical Society since 1889.

MR. HEINRICH B. HELBING.

Mr. J. S. Longdin, chemist and druggist, son of Mr. W. T. Longdin, chemist and druggist, Scarborough, is serving with the 5th Battalion Yorks Regiment. In the early days of the war Mr. Longdin applied for a commission and was put on the waiting list. He then joined a local Volunteer company, a few weeks later enlisted in the Army, and was made orderly to a medical officer in the North. On New Year's Day he was promoted lance-corporal. He was offered a commission on the same day, but he has decided to retain his present work, which he finds in every way congenial. Mr. Longdin is a medallist of the Westminster College of Pharmacy.

News from Austria and Germany.

AUSTRIAN WAR LOAN.—Austrian pharmacists have invested 398,600k. in the national war loan.

DR. F. WILLY HENRICHSEN, Professor of Chemistry at Berlin, has been killed in the fighting on the Russian frontier.

STOCKS OF GLYCERIN in the pharmacies of South Germany have been commandeered on behalf of the War Council. It is stated that this is only done in order to ascertain how much glycerin there is in the country!

SCARCITY OF SALTPETRE.—On account of the increased demand for saltpetre for the manufacture of explosives, the Hungarian Home Department on November 26 issued a decree requiring municipal authorities to commandeer private stocks of saltpetre.

COMMANDEERED ARTIFICIAL SWEETENING-AGENTS.—The destruction of commandeered artificial sweetening-agents, which has been practised in Austria, has raised considerable protest. Requests have been addressed to the Government Departments concerned for permission to use commandeered saccharin for making coffee and tea blocks for the soldiers.

THE WAR COMMITTEE in charge of the interests of German industry in foreign countries recommends German firms which have branch establishments in France to place their interests in France in charge of trustworthy persons, as the French Government have conferred extensive rights on the persons placed by it in charge of these factories. The War Committee will give, on application, names of suitable persons.

SULPHURIC-ACID CONCENTRATION.—A German contemporary remarks that for a long time chemists have been trying to obtain acid-proof materials as substitutes for platinum. The "neutral iron" which was patented by W. Strzoda some years ago proved to be very acid-proof so far as sulphuric-acid manufacture is concerned, but its brittleness gave rise to technical difficulties. According to the "Prometheus," Strzoda has now patented a "Process for the production of acid-proof tubes with iron outer tube and acid-proof inner tube for concentration of sulphuric acid" (D.R.P. 272,158), in which the brittleness is used to advantage. Between a cast-iron outer tube and an inner tube of neutral iron a cement-like filling-material (consisting for the most part of asbestos) is introduced. If the sulphuric acid penetrates through the joined pieces of the neutral iron tube, or through cracks of the cement, to the iron tube, iron sulphate is formed, which is insoluble in the strong acid, and after a short time produces a stone-hard, absolutely acid-proof wall. It is claimed that by this method a very pure sulphuric acid containing up to 33 per cent. of monohydrate can be produced.

TRADE-MARKS IN GREAT BRITAIN.—An expert has advised the Chamber of Commerce of Aix-la-Chapelle to propose to the German Imperial Chancellor that all patents, trade-marks, and designs registered by British firms in Germany should be set free by an alteration of the law of June 7, 1909, against unfair competition. This is in response to the British provisions as to patents and trade-marks of alien enemies. The expert also deals with the circumstances in regard to lysol, stating that since the outbreak of war many English firms have placed on the market preparations which are described as "substitute for lysol" and as "lysol." Reference is also made to the six applications for use of the registered trade-mark "Lysol," No. 98,948, and from the circumstance that the Board of Trade has only sanctioned the cancellation of the word-mark "Lysol," but has allowed a design registered by the same firm to remain, the conclusion may doubtless be drawn, says the expert, that the efforts of the English are directed at depriving well-introduced fancy names, which serve as distinguishing signs of the goods, of their individual character, and of causing them to become common names. It is likely, the expert continues, that affairs will be similar with the trade-mark names of Salvarsan, Pebeco, Formamint, Sanatogen, Aspirin, etc. The rest of the expert's "advice" is abuse of England.

THE "National Guardian's" Edinburgh correspondent, quoting from "Harper's Weekly," notes that in 1505 the right to sell usquebagh was conferred on the surgeons of the city.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Brevities.

The medical officer of the Halifax Guardians' Salterhebble Hospital reports that the recently purchased *x*-ray apparatus has been of the greatest value in the treatment of wounded soldiers in revealing the presence or absence of bullets or pieces of shrapnel.

The annual Report of his Majesty's Inspectors of Explosives for 1913 was issued at the end of November (*C. & D.*, November 28, 1914, p. 48). This week the appendices have been published, which consist of lists of authorised explosives, prosecutions, accidents with explosives, official notices, and similar matters.

Nine persons have died as a result of the administration of poisons during the week. In four cases the poison was taken with suicidal intent. The substances implicated were chlorodyne, cyanide of potassium, fumes of a varnish for waterproofing sailcloth, laudanum (two cases), morphine, prussic acid, and spirit of salt. One person died in a London hospital while under the influence of chloroform administered for anæsthetic purposes.

The London Chamber of Commerce has circulated for the information of members of the Chemical Trade Section a copy of a letter dated March 4, 1914, by the Commissioners of Customs and Excise, dealing with the conditions on which alcohol is allowed to be used duty free for industrial purposes. The letter contains the particulars which are given in the *C. & D. Diary*.

The medical officer of health to the Ross Urban District Council, in reporting upon cases of scarlet fever, etc., stated that there is a habit in the town of parents going to their chemists to ask for treatment. He did not think that sort of thing is right. Chemists are excellent men for dispensing drugs, but how can they tell whether a child is suffering from diphtheria or scarlet fever without seeing it?

Mr. Walter Finch Garry, chemist and druggist, Tulse Hill, Brixton, S.W., was severely burnt in endeavouring to save the life of a young woman named Winny Runner, who was found on Tulse Hill, on December 31, in flames, her clothing having caught fire in some unaccountable way. Mr. Garry went to her assistance, and was severely burnt in an heroic effort to beat out the flames. The unfortunate young woman died from the results of her injuries.

The Supplement to the Forty-third Annual Report of the Local Government Board, which has been issued this week, contains the report of the medical officer. It deals with a variety of medical subjects, such as the control of tuberculosis, acute infectious diseases, and venereal diseases. Each section gives an excellent account of the present-day views on the respective diseases, and is of value to those whose work involves these matters. The papers in Appendix B relate to special investigations, three of these dealing with methods of preserving calf-lymph.

Contracts for Drugs, etc.

The following contracts for articles of interest to our subscribers have been concluded:

Belper Guardians.—J. Calvert & Son, chemists and druggists, for drugs.

Bridlington Borough Sanatorium.—Mr. R. Sharples appointed chemist for one year.

Chorley Corporation.—The Killgerm Co., Ltd., Newton, Chambers & Co., Ltd., and the United Alkali Co., Ltd., for disinfectants for one year.

Dover Corporation Hospital.—Mr. A. L. Thompson, chemist and druggist, for chemists' goods.

Eastry (Kent) Guardians.—Mr. A. E. Woodruff, chemist and druggist, for chemists' sundries.

Hull Corporation (Asylum Committee).—Mr. B. M. Stoakes, Ph.C., for drugs for six months: Mr. Thomas Hills, for aerated waters for the same period.

Hull Municipal Sanatorium.—Mr. H. H. Leggot, for drugs for three months: Smith & Nephew, Ltd., for surgical dressings, and Adcocks, Ltd., for fluid disinfectants for a similar period.

Lewes Guardians.—Mr. J. C. Lloyd, chemist and druggist, Lewes, for drugs (58*l.* 5*s.* 4*d.*).

Maidstone Guardians.—Mr. F. J. Oliver, chemist and druggist, for drugs for one year (170*l.* 13*s.* 5*d.*).

Salford Town Council.—Tennants (Lancashire), Ltd., Manchester, for 1,800 tons of sulphuric acid during one year (58*s.* per ton); Burroughs Wellcome & Co., for serums (approximate value, 225*l.*); Hough, Hoseason & Co., for drugs and sundries (338*l.* 14*s.* 8*d.*), and for medical, surgical, and dispensary requisites (136*l.* 17*s.* 5*d.*).

Spennymoor Urban Council.—Adcocks, Ltd., London, for disinfectants for one year.

Stockport Guardians.—Albert Browne, Ltd., Liverpool, for 50 yards red-rubber sheeting for hospitals (9*s.* per yard).

Wrexham Guardians.—Messrs. Francis & Co., for chemists' goods.

New Year's Honours.

The customary New Year's honours list is shorter than usual this year, but it contains a few names of gentlemen connected with chemistry and chemical industry upon whom the King has conferred honours. These we mention:

One of the three new baronets is Mr. Stanley Herbert Cochrane, governing director of Cantrell & Cochrane, Ltd., mineral-water manufacturers, Dublin and Belfast. He is the younger surviving son of the late Sir Henry Cochrane, Bart., and brother of Captain Sir E. C. Cochrane, of the Connaught Rangers, chairman of the company, who succeeded his father in the baronetcy. Sir Stanley Cochrane was born in 1877, and has served as High Sheriff for County Wicklow and County Dublin. He is a Deputy-Lieutenant of the latter, and a Justice of the Peace for both counties. He has done much to support the revival of Irish music and to encourage cricket in Ireland, and is at present a lieutenant in the 7th Battalion of the Royal Dublin Fusiliers.

Dr. James Johnston Dobbie, D.Sc., F.R.S., etc., Principal of the Government Laboratory, is to be knighted. Dr. Dobbie is a Glaswegian, and was educated at the High School of Glasgow and the Universities of Glasgow, Edinburgh, and Leipzig. He is a M.A. and D.Sc. by examination. He acted as assistant to the Professor of Chemistry in Glasgow University from 1881 to 1884; then was Professor of Chemistry in the University of North Wales, Bangor, from 1884 to 1903, when he was appointed Director of the Royal Scottish Museum, Edinburgh. In 1909 he succeeded Sir Edward Thorpe, F.R.S., as Principal of the Government Laboratories. Dr. Dobbie is noted for his work on the constitution of alkaloids and the relation between the chemical constitution and the absorption spectra of organic compounds. He was elected a Fellow of the Royal Society in 1904, has been a Fellow of the Chemical Society since 1882, has served on the Council and as a Vice-President, and is at present a member of the Research Fund Committee. Of his predecessors in the Principalship of the Government Laboratory, two—Richard Phillips and Sir Edward Thorpe—have been Presidents of the Society.

DR. J. J. DOBBIE.

Among the medical men honoured is Sir William MacGregor, M.D., D.Sc., G.C.M.G., who recently retired from the Governorship of Queensland. He is made a Privy Councillor. He received his medical education in the Aberdeen and Glasgow Universities, and in 1872 became Licentiate of the Glasgow Faculty and of the Royal College of Physicians, Edinburgh, as well as M.B. of Aberdeen. He was a resident surgeon in the Glasgow Royal Infirmary and the Royal Lunatic Asylum, Aberdeen, until his appointment as Assistant Government Medical Officer, Seychelles, in 1873, whereby he entered upon his career as an administrator. He served in Fiji, the Western Pacific, British New Guinea, in Lagos as Governor from 1899 to 1904, as Governor of Newfoundland in 1904-5, and after that in Queensland.

Major Samuel R. Christophers, M.B., I.M.S., officer in charge of the Malarial Bureau at the Central Research Institute, Kasauli, receives the C.I.E., which is also conferred upon Colonel G. W. Patrick Dennys, I.M.S., Inspector-General of Civil Hospitals, Central Provinces.

Major James Husband, M.B., I.M.S., civil surgeon, Wana, North-West Frontier Province, and Dr. C. A. Bentley, M.B., special officer under the Sanitary Commissioner of Bengal, receive the Kaisar-i-Hind Medal for public service in India.

On this occasion, and in connection with the European War, the King has created a Distinguished Service Cross, to be designated the Military Cross. Among the first to receive it are Captain E. D. Caddell, M.B., Lieut. Cyril Helm, M.R.C.S., L.R.C.P., Captain J. F. Murphy, M.B., and Captain H. Stewart, M.B., all of the Royal Army Medical Corps. Also in the same Corps, Sergeant-Majors H. J. Anderson, T. E. Coggon, R. Cox, A. T. Hasler, E. R. Loft, and R. J. McKay.

The Reassembling of the House of Lords.

The House of Lords, contrary to the time-honoured custom, reassembled on Wednesday afternoon, January 6, after a brief interval, while the Lower Chamber was not in session. It will have risen again before this number of the *C. & D.* goes to press. Various questions connected with the war were discussed. Lord Lansdowne was unable to be in his place owing to indisposition, and Earl Curzon led the Opposition. The House of Commons, according to present arrangements, will not re-commence its sittings until February 2.

Birmingham.

Owing to the war horse-radish has become very scarce, as the greater part of it comes from Germany.

The Birmingham Education Committee, on the motion of Mrs. George Cadbury, have arranged with the Board of Guardians for the *x*-ray treatment of children suffering from ringworm.

Trade being very good in many industries of this city, the drug business has been very brisk during the festive time. There has also been an undue proportion of sickness among women and children owing to the plague of waters, which has quite wearied everybody.

The question of the multitude of travellers who call upon retail pharmacists is again coming to the fore. Many are beginning now to adopt the plan of seeing travellers at certain hours and certain days when business is, as a rule, not so brisk—a card being set up as a guide.

The Coventry Photographic Club has just concluded a photographic survey of the "City of the Three Spires," and at their Exhibition held on Monday the first certificate was awarded to a local gentleman for "Applestore Room, Charterhouse." This is the well-known residence of Colonel Wyley.

The Belgian refugees in our city are numerous, and are being well cared for and looked after by the citizens. In spite of all this a very handsome sum is being got together by the medical profession and pharmaceutical craft in and around Birmingham which is to be specially earmarked for similar Belgian professional men.

A suggestion is made by a well-known Birmingham pharmacist that all 1898 stocks in the shop-rounds should be so labelled conspicuously, and when the stock is exhausted and the 1914 preparations are filled in, the fact will be indicated by the removal of the label. Rarely used 1898 preparations will then be easily spotted.

Jersey Jottings.

Mr. F. G. Piquet, chemist and druggist, St. Heliers, was one of the two judges in a Christmas shops competition organised in Guernsey by the local "Evening Press."

Mr. F. G. de Faye, chemist, St. Heliers, expresses thanks, through the local Press, for the response made to his appeal for comforts for Dr. de Faye's wounded in the Military Hospital at St. Brieuc (France). Four cases have been forwarded, containing crutches, clothing, splints, bandages, etc.

Boots Cash Chemists, Ltd., were summoned before the Royal Court of Jersey last week for neglecting to comply with orders to remove obstructions from their premises, for which three fines of 5*s*. each had previously been imposed. Regret was expressed, but the Court imposed an additional fine of 10*s*. and costs.

Liverpool.

Local chemists have been perturbed at not receiving the usual forms for rendering their Insurance accounts for the quarter ended December 31. These were despatched by hand on January 1, but the messenger got "locked up." The parcel of accounts has found its way back to Alexandra Buildings, and chemists will receive them this week.

January 1 was a Day of Emancipation for local panel chemists owing to the abolition of Rep. Mist. and private formulæ in Insurance prescriptions (see p. 52). The latter constantly interfered with insured persons choosing their own chemist. A person living at Anfield and working at Garston, with a panel doctor living at Old Swan, is placed at a great disadvantage and put to endless inconvenience if he is "tied" to one particular chemist, who only knows the doctor's private formulæ. An "open" prescription means a great convenience.

Manchester.

Mr. John A. Cox has purchased the business of the late Mr. Bethel, Palatine Pharmacy, Moss Lane West, Moss Side, Manchester.

The great majority of the special Christmas window-shows were left over New Year's Day. Those who made special shows are well satisfied with the resultant business.

A local "Chemists' Exhibition" is to be held at the Victoria Hotel from January 12 to 14 inclusive, open daily from 10 A.M. to 1 P.M., 2 P.M. to 5.30 P.M., and 6 P.M. to 10 P.M. A mass meeting of chemists, to which all retailers are invited, will be held at the same hotel on January 13, Mr. F. W. Bates, Vice-President of the local Pharmaceutical Association, in the chair. The speakers advertised are Mr. C. W. Brumwell, London; Mr. J. Gilbert Jackson, Sheffield; Mr. G. W. Evans, London; Mr. H. Miller, Cheltenham, and others.

The new Radium Department of the Manchester Royal Infirmary is now fully equipped and ready to begin work. The Radium Committee on December 30 inspected the rooms in which the radium treatment will be carried out and the laboratory where the applicators and emanation-tubes are filled. A workshop, in which the tubes and applicators are made, is associated with the department, and one of the most interesting features is the mercury pumps used for pumping off the niton derived from radium kept in solution. The radium, which is worth about 20,000*l*., is kept in a strong fireproof room. The department will be worked in conjunction with the Cancer Research Laboratory, presided over by Dr. Powell White.

Sheffield.

Mr. W. H. Sheldon, chemist and druggist, has opened a pharmacy at Maltby, near Rotherham, where a new population has sprung up through the sinking of a colliery.

Some local chemists were disappointed that they were unable to remain open on the afternoon of Thursday, December 31, owing to failure to give the seven days' notice required by the authorities (*C. & D.*, December 5, 1914, p. 38).

Christmas trade, on the whole, was better than might have been expected. In some districts the fancy trade was very much down, but in others it was quite up to the usual, and in a few cases the report is very satisfactory indeed. Chemists holding wine-licences suffered some annoyance in having to refuse to supply wine to regular customers while the pharmacy remained open for other business.

From Various Courts.

At Haywards Heath (Sussex) on December 31, Albert E. Stewart was bound over on a charge of stealing a pocket-camera, value 1*l*. 10*s*., from the shop of Dixon & Sons, Haywards Heath, on December 29.

At Enfield Police Court on January 4, Arthur Henry Spicer (38), musician, was remanded on a charge of forging and uttering a cheque for 5*l*. on the Capital and Counties Bank (Godalming branch) with intent to defraud Mr. Frank Goldby, Ph.C., Enfield Town, and with

obtaining the sum of 2*l.* 10*s.* Mr. Goldby, in evidence, stated that prisoner represented himself as a relative of a local family with whom he (Mr. Goldby) did business, and asked Mr. Goldby to cash a cheque for 5*l.* which he had had sent to him by his uncle, Mr. Herbert Spicer, of Cranbourne, St. Margarets, Herts. He (Mr. Goldby) at first refused, but on prisoner producing a letter which he said he had received from Mr. Herbert Spicer, he agreed to advance 2*l.* 10*s.* on the cheque. Mr. Herbert Spicer said prisoner was his nephew, but he knew nothing of the cheque or the letter, and he had no account at the Godalming branch of the bank.

At the Mansion House Police Court on January 6, Arthur D. Light, publisher, who was said to have represented himself as Principal of the British Health Institute, Budge Row, Cannon Street, was committed for trial at the Old Bailey on a charge of attempting to obtain money by false pretences. For the prosecution it was alleged that, at the above address, there were five rooms, one of which was fitted up as a consulting-room. People were invited to send certain things for analysis for a fee of 1*s.* 6*d.*, and were promised advice as to treatment. In consequence of complaints, a detective-inspector sent a coloured mixture for analysis, and was invited to attend for a consultation. He did not do so, and then received a further letter recommending a course of treatment, and asking that a fee of 1*l.* 11*s.* 6*d.* should be sent. During the past year 275 persons appear to have received treatment. The accused reserved his defence.

Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Guardians' Doings.

Messrs. Boileau & Boyd's letter regarding the effect of the war on the prices of drugs under their contract was considered at the meeting of the Ballina Board of Guardians. The Acting Clerk said the Local Government Board were differentiating between the drug contractors and ordinary contractors. They had consented to give an increase as regards the cost of drugs, but not in the other cases till the expiration of the contracts. Mr. Walsh said there is an immense difference between the prices of drugs now and when the contract was declared. The matter was not further discussed.

The Local Government Board in connection with the claim for recoupment made by the Shillelagh Board of Guardians for drugs, etc., point out that certain items were apparently not supplied, though ordered and paid for, and also that the names of the manufacturers of compressed drugs in two instances had been omitted. The Clerk said the items referred to were certified by the medical officer as having been received, and he certified accordingly on his signature to the contractors. In the requisition in the other instances the medical officer forgot to enter the names of the contractors in the column for the purpose. The claim, however, was allowed, as the Local Government Board has not disallowed anything.

Insurance Dispensing.

At the monthly meeting of Belfast Corporation on January 1, the Committee of Management of Hospitals and Dispensaries reported the receipt of a letter from Mr. James Guiler to the effect that chemists are prepared to continue to dispense prescriptions in connection with the scheme for the prevention of tuberculosis on the same terms as arranged with the Belfast Insurance Committee, and giving, in addition, quotations for extract of malt and cod-liver oil, emulsion of cod-liver oil with hypophosphites (25 per cent.), and dressings, the prices of these articles, however, being subject to market fluctuations. The Committee resolved that, subject to the chief tuberculosis officer being satisfied as to the prices, this arrangement be approved of, subject to revision every three months. The Corporation confirmed this decision.

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

The Kelp-industry in Shetland.

At a recent meeting of the Zetland County Council the kelp-industry in Shetland was discussed. It was pointed out that the sum offered for kelp—viz., 6*s.* 6*d.* per cwt.—was too low, as the islanders could get more for the peats if sold in Lerwick. It was urged that the Government should guarantee a fair market.

Potash Salts from Forest-produce.

The Board of Agriculture for Scotland states that there is reason to believe that the stocks of potassium salts in Scotland will be completely exhausted by April 1915. The Board has caused experiments to be conducted by the Forestry Department of the West of Scotland Agricultural College, the results of which indicate that there is a possibility of the commercial production of potash salts from forest-produce on a considerable scale. The ascertained cost ranges from 40*s.* to 50*s.* per ton in the case of bracken land and 50*s.* to 60*s.* per ton in forest-land. In addition, important indirect effects will follow—*e.g.*, the clearing of forest-land of undergrowth, etc., which will cheapen the cost of the extraction of timber and of re-planting, and the clearing of much hill grazing land of bracken (*C. & D.*, December 5, p. 38).

Aberdeen and the North.

The weather this week has been mild and wet, in consequence of which there is a good demand for cough and cold cures among soldiers and civilians.

The Plans Committee of Aberdeen Town Council has approved of the plans for a factory, at the junction of Crombie Place with South Esplanade East, for the Albuminoid Products Co., Ltd.

Mr. William A. Ness, chemist and druggist, 328 King Street, Aberdeen, has purchased the business of Mr. John Byth, 624 King Street, and Mr. Byth has bought from Mr. Ness the business at No. 328, the branch post-office at which is meantime discontinued.

According to a local paper, there is good reason to believe that the Sick Children's Hospital in Castle Street, close to Castlehill Barracks, has been taken over by the military authorities. The children in the hospital, numbering over 50, were this week removed to Kepplestone House, which has been fitted up for hospital purposes.

Edinburgh.

Cotton-wool and cod-liver oil are generally lowered in price again. One or two chemists are showing the former commodity at 1*s.* per roll, the pre-war price.

At the annual meeting of the Corporation of Squaremen, held in St. John's Masonic Chapel, Canongate, on New Year's Day, Mr. Victor Wright was appointed druggist and Dr. Lyon Wilson was re-elected physician.

Business over the New Year was better than might have been expected, especially in so-called working-class districts. The workers, as a rule, will be able to look proudly back upon the war, and their business-as-usual attitude while it lasted. In trade one hears and observes many instances of their calm confidence in the ruling powers, a vast difference from the panicky type which laid in enormous stores of provisions some months ago.

The first number of the "Craigleith Chronicle," a monthly magazine issued in connection with the Territorial Hospital at Craigleith, states that since August 14, 1,704 Territorials, 612 wounded soldiers of the Expeditionary Force, and 64 wounded Belgians have passed through the hospital, making a total of 2,380. Four hundred and fifteen operations have been carried out, 212 cases have been *x* rayed, 282 plates having been used altogether.

WE are slowly and incredulously awakening to the knowledge that German commercial tricks are on a par with their tricks in war; that the whole nation is infected by the microbe of dishonour and dishonesty.—*Sir William Ramsay, K.C.B., F.R.S.*

French News.

(From the "C. & D." Paris Correspondent.)

DIED AT HIS POST.—Monsieur Doucedame, pharmacist, of Vailly (Aisne), was killed behind his counter by a German shell.

DURING FRENCH MILITARY OPERATIONS in Alsace René Girard, sergeant of infantry, was shot through the head while advancing against the enemy. He was a partner in the firm of A. Girard (Laboratoire de la Croix de Genève), and after taking his French pharmaceutical diploma had qualified as Doctor of Pharmacy. His young widow (he was only married last spring) is the daughter of Cormon, the famous French painter of primeval man. Of keen intelligence and charming manner, full of life and energy, fond of outdoor sports, René Girard worthily represented the best class of young Frenchmen, the new generation which is the backbone of France's present army, whose very gallantry ensures their ultimate self-sacrifice in case of dangerous or prolonged fighting.

PARIS SOCIETY OF PHARMACY.—At the December meeting M. Cousin was elected Vice-President for 1915 and M. Pépin Annual Secretary. M.M. Preud'homme, Meillere, and Bougault were appointed as a Financial Committee. M. Poulenc and M. Bougault read reports on the prize essay competitions. Their conclusions were ratified; for physico-chemical science the gold medal was awarded to M. Bouvet, the silver medal to M. Courtois. For natural science M. Aubry takes the gold and M. Joachim the silver medal. A letter was read from Professor Lebeau thanking the Society for electing him as a resident member. M. Grimbert read two papers, one by Dr. O. Ferrier, of Vitré, on the composition of the cephalorachidian fluid of tetanic cases; the other by M. Leclère on an extremely sensitive reaction of apomorphine, by which it may be detected in 1-in-500,000 aqueous solution.

PARISIAN JOURNALS OF PHARMACY.—Although many Parisian scientific journals have been forced to suspend publication since the outbreak of hostilities, the "Journal de Pharmacie et de Chimie" announces that it proposes to appear as usual. Since its foundation over a century ago, even during the dark months of the siege of Paris in 1870, this journal has always been regularly issued; it is, therefore, in strict accordance with historical tradition and precedent that its publication should not be interrupted. It will, however, be merely monthly for the present, and the number of pages increased "if circumstances permit." The "Union Pharmaceutique" and its "Bulletin Commercial" are temporarily amalgamated. The "Répertoire de Pharmacie," which had not appeared since the war broke out, publishes a January number, and "hopes to resume normal life in 1915." Needless to say, the absence of advertisements consequent on the stagnation of trade heavily handicaps the pharmaceutical Press here.

THE "SPECIMEN MUNICIPAL DECREE," regulating the practice of pharmacy in Morocco, was published in the "Official Bulletin" of the "Cherifian Empire," now, of course, a French protectorate. It provides that no pharmacist shall keep open shop without the authorisation of the Pacha, and that the authorisation shall only be delivered on production of a diploma certified as genuine by the local Consul of the nation by which it was issued. The Pacha's permission is only valid for the district over which he holds rule, and must be *visé* by the "administrative control" of that district. Pharmacists must not deliver "dangerous medicaments" without a doctor's prescription. No pharmacist may have more than one pharmacy, and the place of any absentee must be filled by another pharmacist or by an assistant of at least five years' experience. Hospitals are allowed to have pharmacies of their own, and societies and companies may hold a reserve of medicaments for the exclusive use of their members or their staff. Unqualified foreigners who already kept open shop in September 1913 are required to pass a theoretical and practical examination.

Legal Reports.

Trade Law.

Sweet Spirit of Nitre.—At Llanrwst on December 28, Pryce Hughes, Glanconway, was fined 2*s.* 6*d.*, and costs, for selling sweet spirit of nitre which the public analyst certified to contain only 0.04 per cent. of ethyl nitrite.

Lavona Trade-mark.—The First Division of the Court of Session, Edinburgh, began on January 6 the hearing of the appeal by Tokalon, Ltd., London, who sought to restrain Davidson & Co., chemists, Edinburgh (The Kar Manufacturing Co.), from selling "Lavroma," a preparation for shampooing. In the first instance the decision was against the appellants (*C. & D.*, January 17, 1914, p. 42).

Erasmic Trade-mark.—At Newcastle-upon-Tyne on January 4, John Williams, a canvasser, Rye Hill, pleaded guilty to an offence under the Merchandise Marks Act by unlawfully and falsely causing to be applied to certain shampoo-powders the description "Princess Erasmic," which so nearly resembled the registered trade-mark of the Erasmic Co. as to be calculated to deceive. The Magistrates imposed a fine of 40*s.*, and costs.

Limited Companies.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

JERSEY TOILET SOAP, LTD. (P.C.).—Capital 100*l.* Objects: To carry on the business of wholesale import, export, and retail soap and perfumery manufacturers and dealers, also manufacturers of, *inter alia*, lozenges, drugs, druggists' sundries.

PHILLIPS & SON (CHEMISTS AND OPTICIANS), LTD. (P.C.).—Capital 5,000*l.*, in 1*l.* shares (2,500 6 per cent. cumulative preference). Objects: To take over the business of a pharmaceutical chemist and optician carried on by H. S. Phillips at 48 Wallgate, 144 Scholes, and 25 Wigan Lane, all in Wigan, as "Phillips & Son." The first directors are H. S. Phillips (chairman and permanent director, subject to holding 1,500*l.* shares), R. G. Hodkinson and R. T. Walker (managing directors).

BASS & WILFORD, LTD. (P.C.).—Capital 1,000*l.*, in 1*l.* shares. Objects: To carry on the business of chemists, druggists, drysalters, importers and manufacturers of and dealers in pharmaceutical, medicinal, chemical, industrial, and other preparations and articles, etc., and to adopt an agreement with Mary Burden, Annie Wilford, Nellie Williamson, Fanny M. Bramley, and Ethel M. Wilford, Homesgarth, Parkstone, Dorset. The first directors are A. R. Burden and C. Williams.

Company News.

KELVINSIDE CHEMICAL CO., LTD.—At a meeting of the shareholders of this company, held at Garscube Chemical-works, Dawsholm, Maryhill, Glasgow, on December 30, it was decided to wind-up the company voluntarily, and Mr. Alfred A. Todd, C.A., Glasgow, was appointed liquidator.

ARTHUR BERTON, LTD.—The formation of this company was intimated in our issue of January 2. It is formed to take over the business of Arthur Berliner, manufacturer of surgical dressings, Worship Street, London, E.C. Mr. Berliner was born in Worship Street in 1859, his father and predecessor in business, the late Mr. Henry Berliner, being a British subject. Mr. Arthur Berliner has now taken the opportunity to have his surname changed to Berton, hence the name of the company. He will be its governing director, and will have associated with him his son Herbert as factory-manager, Mr. H. J. J. Cook as sundries-manager, and Mr. T. H. Ford as sales-manager. Customers of the company are having an opportunity to get shares in it, but most of the capital is held by the governing director and his fellow-directors.

LENNON, LTD.—The annual report for the year ended June 30, 1914, states that the volume of business transacted has been well maintained at all the company's depôts. After making provision for all bad and doubtful debts, trade expenses, directors' fees, etc., the net profit amounts to 31,254*l.*, which, when added to the balance brought forward from 1913, makes a total of 36,093*l.* available for distribution. The directors recommend that this amount be disposed of as follows: Dividend of 5 per cent. per

annum on cumulative preference shares (already paid), 8,750*l.*; dividend of 6 per cent. per annum on ordinary shares (both free of income-tax), 14,416*l.*; to reserve fund, 5,000*l.*; to laboratory account, 1,049*l.*; balance forward and for income-tax, 6,877*l.* The 2,000*l.* provided for extension purposes has been used in the furnishing of the new steam laboratory. During the past year a further 515 ordinary shares have been issued. The retiring directors are Messrs. J. H. Carter, R. Q. Leeds, and W. J. Bickle, who are eligible for re-election and have been duly nominated. The report was adopted at the meeting held at Cape Town on November 30.

Gazette.

From the "London Gazette," January 1, 1915.

NOTICE is hereby given, that the BRITISH PHARMACOPŒIA, having been revised, has been republished under the direction and by the authority of the General Council of Medical Education and Registration of the United Kingdom, and that the same has been printed by Messrs. Butler & Tanner, of Frome, in the county of Somerset, and published by Messrs. Constable & Co., Ltd., of 10 Orange Street, in the county of London, publishers.—Dated the 31st day of December, 1914.

A. J. COCKINGTON, Acting Registrar.

Partnership Dissolved.

ROALFE-COX, W. J., and NASH, C. H., "The Laurels," Mortimer, Berks, general medical practitioners, under the style of Roalfe-Cox & Nash.

Bankruptcy Acts.

RECEIVING ORDERS.

LAMACRAFT, W. H. (trading as W. Lamacraft & Co.), 80 Derwent Street, Blackhill, Durham, druggist.

THORNLEY, N., 81 Alexandra Road, Moss Side, Manchester, chemist and druggist.

ADJUDICATION.

LAMACRAFT, W. H. (trading as W. Lamacraft & Co.), 80 Derwent Street, Blackhill, Durham, druggist.

Business Changes.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

MR. ROBERT GORDON DRUMMOND, chemist, Falkirk, has purchased the business of the late Thomas Lyon, 72 High Street, Falkirk.

MR. JOHN WILD, chemist and druggist, 307 Oxford Road, Manchester, has assumed Mr. R. Salthouse as a partner, the firm-name being Wild & Salthouse.

MR. ALEXANDER S. PICKERING, general produce broker, Dunster House, Mincing Lane, London, E.C., has retired from business. His son, Mr. Alex. H. Pickering, will continue the business under the same style.

Birth.

Authenticated notices are inserted without charge.

GREEN.—On January 1, the wife of Edmund R. Green, chemist and druggist, 13 Holland Road, Willesden, London, N.W., of a daughter.

Marriages.

Authenticated notices are inserted without charge.

BROWN—DUCKHAM.—At London, on December 22, Vernon Sydney Brown, B.A., younger son of Mr. Ernest J. Brown, analyst to the Greenwich Borough Council, of Lee Terrace, Blackheath, S.E., to Constance May, third daughter of Mr. F. E. Duckham, The Red House, Blackheath.

GOODMAN—TOBIAS.—On December 30, Maurice Goodman, 125 Belgrave Road, Birmingham, to Millie Tobias.

Silver Wedding.

MERSON—GRAY.—At Boyndlie, Fraserburgh, on January 2, 1890, by the Rev. M. P. Johnstone, B.D., Parish Church, Fraserburgh, assisted by the Rev. John Paterson, Free Church, Rosehearty, George Fowlie Merson to Minnie Gray, Fraserburgh. (Present address, 22 Duke Street, Edinburgh.)

Deaths.

Authenticated notices are inserted without charge.

DUCKWORTH.—At Rochdale, on January 1, Sir James Duckworth, J.P., F.R.G.S., aged seventy-four. Sir James Duckworth had been a director of Boots, Ltd., for many years. He began to work in a cotton-mill at seven years of age, and when he reached manhood fell into ill-health. Then he began to peddle tea from door to door in Rochdale and neighbourhood. This led to his opening a shop as a grocer, and his modest venture developed into the gigantic business of James Duckworth, Ltd., Rochdale, over one hundred shops being opened or acquired, and of this company he was chairman, also of Belfield, Ltd., and of the National Tea Union. He was Mayor of Rochdale from 1891 until 1893, and again in 1910-11, and sat in the House of Commons as the Liberal Member for the Middleton Division of Lancashire from 1897 to 1900 and for Stockport from 1906 to 1910. He was President of the United Methodist Free Churches in 1894. He also travelled widely, and received his Knighthood in 1908, at the same time as Sir Thomas Barclay.

SIR JAMES DUCKWORTH.

LOCKERBIE.—In a nursing-home at Carlisle, on January 3, William Lockerbie, M.B., Ch.B., elder son of Mr. James Lockerbie, chemist and druggist, 39 Warrender Park Road, Edinburgh, aged thirty-seven.

MCMULLAN.—At Stoneleigh, Bangor, co. Down, on December 31, Harold Wilfred, elder son of Mr. Thomas W. McMullan (Thomas McMullan & Co., druggists, Victoria Street, Belfast), aged twenty-one.

ORCHARD.—At Elmfield, Salisbury, on December 28, Bertha Mary, daughter of the late Mr. Edwin John Orchard, chemist and druggist, and of Mrs. Orchard, of Elmfield, Salisbury, aged thirty-four.

ORRELL.—Suddenly, at Bedale, on January 1, Mr. William Herbert Orrell, chemist and druggist, aged thirty-nine.

WOLF.—At West Bank, Church, Accrington, on January 1, Alfred Wolf, M.A., Ph.D., aged seventy-five. Dr. Wolf was born in Saxony, and educated at Bonn, Wurtzburg, and Leipzig. He was a well-known research chemist, especially in dyes and colours. He had resided in England for forty years, and held several important positions during that time. For the past twenty-one years he was research chemist at Messrs. Blythe & Co.'s chemical-works, Church.

Killed in Action.

BLACK.—In the Flanders trenches, on December 22, Lance-Corporal Walter Cairns Black, chemist and druggist, son of Mr. James Black, 11 Brangholm Terrace, Edinburgh, aged twenty-six. Lance-Corporal Black was in the London Scottish, and was killed by a German sniper. He joined the London Scottish the day after the outbreak of war, and took part in all the recent fighting in which that London corps has been engaged. He served his apprenticeship under Mr. G. W. Mangan, who was then manager to Mr. Mason, Comely Bank, Edinburgh, and accompanied Mr. Mangan as assistant when the latter took over his present business in Nicholson Street, Edinburgh. Mr. Black qualified from the Edinburgh Central School of Pharmacy in 1910, and was thereafter senior assistant for two years to Mr. H. Dixon, chemist and druggist, 2 Russell Gardens, Kensington, London, S.W. He then joined the staff of Allen & Hanburys, Ltd., Lombard Street,

MR. W. C. BLACK.

E.C., with whom he remained until he enlisted. He was of the type that makes a good soldier, and had recently been promoted lance-corporal for tending wounded under fire and for general good work in the trenches. Mr. Black was well known to many of the younger generation of pharmacists, by whom his untimely death is much regretted.

Died of Wounds.

PEARCE.—From wounds received in action on December 18, Geoffrey Vincent Pearce, second-lieutenant 2nd Royal Warwickshire Regiment, son of Mr. William Pearce, M.P., F.C.S., aged twenty-five. Lieut. Pearce was formerly a sergeant in the Uppingham School Corps; he afterwards joined the Artists' Rifles, with whom he went to the Front in October. On arrival he was selected for a commission in the Royal Warwickshire Regiment. He was wounded and taken prisoner on December 18.

Wills.

MR. ROBERT JOHNSON DAVIS, Sandhills Cottage, Kelsey Park, Beckenham, a director of Scott & Bowne, Ltd., proprietors of Scott's Emulsion, who died on November 21, left estate valued at 61,000*l.*

MR. CHARLES PACKWOOD, retired chemist and druggist, 106 Hunter's Road, Handsworth, Birmingham, who died on November 5, aged eighty-seven, left estate valued at 1,328*l.* 16*s.* gross, with net personalty 244*l.* 18*s.* 2*d.*

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

MISS OLIVE M. FOX, Peterborough, has been recommended for appointment as joint secretary-dispenser at the tuberculosis dispensary in connection with the boroughs of West Bromwich and Walsall.

THE PRESIDENT OF THE BOARD OF TRADE has appointed Mr. H. Fountain, C.M.G., to be Assistant Secretary to the commercial department of the Board, in the place of Mr. G. J. Stanley, C.B., C.M.G., retired.

MR. HARRY S. O'DONNELL, chemist and druggist, has left Botica Inglesa, Oruro, Bolivia, for London, whence he will sail for Singapore to relieve Mr. James MacKenzie, manager of the Singapore Dispensary, Ltd., who is coming home on leave.

MR. JAMES ABERNETHY, chemist and druggist, who has represented A. Wander, Ltd., in the North Eastern Counties of England for over three years, will in future be the London (West-end) representative, in succession to Mr. J. G. McMillan, now managing director.

MR. J. R. WARDLE, who is retiring from the position of secretary to J. Crosfield & Sons, Ltd., Warrington, has been presented by the directors, managers, and general office staff of the company with a silver tea and coffee service, and a gold watch-bracelet for Mrs. Wardle.

To MR. W. S. GLYN-JONES, M.P., must be attributed in the main the success of the distribution of gifts from the Dominion of Canada which was made on Tuesday to 800 recipients residing in the hon. member's constituency. Among those present were Sir George H. Perley, the Acting High Commissioner for the Dominion, and other representatives of Canada.

CAPTAIN WHIFFEN, chief recruiting officer at Great Scotland Yard, who resides at Goodmayes Avenue, Seven Kings, was one of those injured in the railway accident at Ilford on New Year's morning. He sustained a compound fracture of the left leg and wounds in the head. With unselfish fortitude Captain Whiffen, who is a son of Mr. T. J. Whiffen (T. Whiffen & Sons, Ltd.), directed his rescuers to turn their attention to passengers more seriously injured than himself. He is now making satisfactory progress toward recovery.

MR. READ HOLLIDAY, who founded the business of Read Holliday & Sons, Ltd., Huddersfield, in 1830, originally went to that town from Bingley, and commenced the distillation of ammonia from the Huddersfield Gasworks liquor. He was not a trained chemist, but was very ingenious, and in 1839 removed to Turnbridge, where the gas authorities deposited their tar on his land, and he turned it to account by distilling burning naphtha from it. Afterwards he became the largest tar-distiller in the North of England, extending his activities to the manufacture of aniline dyes. His five sons, Thomas, Charles, John, Edgar, and Robert, were associated with him in the business.

Trade Notes.

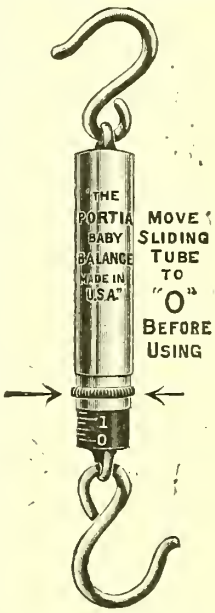
LUNG-PINES.—Cupal, Ltd., Blackburn, are at present making a speciality of "Lung-pines," a form of compressed lozenges employed for the throat and chest. These are pleasant and warming to the taste, and are offered in bulk, being a popular winter remedy.

PEARS' SOAP.—In one of the windows of the head establishment of A. & F. Pears, Ltd., Oxford Street, W.C., the various kinds of Pears' soap, including balls, tablets, and shaving-sticks, are nicely arranged, with an electric light at the back, the result being that at night the display has a fascinating appearance, the transparency and richness of colour being particularly notable.

BRITISH SALVARSAN.—As a matter of record we note that Messrs. Burroughs Wellcome & Co. advertised in the *C. & D.* of January 2 that limited supplies are available of Salvarsan made by them in England under licence from the British Board of Trade, and biologically tested under arrangements approved by that Board. It is called the "Kharsivan" brand. This is the reply to German sneers of British inability to do things that our enemies say can only be done by Germans.

DEARER BRUSHES.—The British Brush-manufacturers' Association announces that a further advance in the prices of brushes has become imperative. Bristles average at least 30 per cent. higher prices than those ruling in July last, and certain qualities are considerably higher than that. The port of Archangel, from which bristles have been shipped, is now practically closed. Very small arrivals are due of Chinese bristles, stocks in London are very limited, while Government demands are enormous. Timber and all other raw materials have advanced considerably in price—in some cases nearly 50 per cent. African bass is very scarce, and more than double its normal price. Horsehair and fibre have also advanced considerably.

THE "PORTIA" BABY BALANCE, which is introduced by Messrs. Solport Bros., 188 and 190 Goswell Road, London, E.C., specially for sale by chemists at 1*s.* 6*d.* retail, is a clever article which retailers should be able to sell freely. It weighs up to 15 lb., and consists of a bright white-metal tube with hook at the end; within an inner tube is a black cylinder graduated from zero to 15 lb. (with additional markings for each 4 oz.). The top of this cylinder also has a hook. When the container for the baby is attached to the lower hook a twist of the inner tube adjusts the scale to zero, then the baby is weighed. The operation is simplicity itself. The balance may be used for weighing small parcels or anything else up to 15 lb. Each balance is supplied in a carton, and Messrs. Solport Bros. furnish an attractive little showcard depicting in colours a baby suspended in a bath-towel. This card is to be attached to the lower hook of the balance, and placed at the counter or in the window. The baby is supposed to say, "Mother loves to watch me grow. She weighs me on the 'Portia' baby balance every day."



JAY MACK'S LEDGER and cash-book can now be obtained from three Liverpool wholesale houses, who are stocking the books, which, Jay Mack informs us, are much appreciated by those who use them, as we anticipated.

METRIC EQUIVALENTS.—Messrs. S. Maw, Son & Sons, 7 to 12 Aldersgate Street, London, E.C., have devised a series of circular scales of equivalents of Imperial weights and measures in the metric system. The scales are lithographed on a circular cardboard disc, varnished and provided with an eyelet hole for hanging up. The scales enable the following transversions to be made: Grains and drachms to milligrams and grams; ounces (avoirdupois and apothecaries'), pounds, and hundredweights to grams and kilograms; fractions of grains to milligrams; minims, fluid drachms, fluid ounces, and pints to millilitres and litres; gallons to litres. Each scale is a double one—*i.e.*, can be employed for the reverse of the uses stated above.

No calculations are required. The discs are not sent out indiscriminately, but are supplied on certain conditions to purchasers of Maw's Parex goods.

BRITISH-MADE LABORATORY-GLASS.—We have received from Reynolds & Branson, Ltd., Leeds, some good specimens of laboratory glass-ware made by them. One of these is a well-finished Liebig's condenser specially made for separating toluene from benzol. Many other kinds of glassware are made, several varieties of glass being employed. The company will shortly be in a position to meet all demands for glass laboratory apparatus. All the difficulties involved in the choice of glass for the manufacture of ampoules seem to have been overcome. We have examined a specimen of the ampoules employed for tincture of iodine

as a wound-dressing. These are put up by the company under the name of "Iosept," and have attached to them a covering (not shown in the engraving), which answers the purpose of a swab when the ampoule is broken before use. It is pleasing to be able to record that the difficulties in making glass laboratory-ware have been boldly faced and overcome by the Leeds House. That is the right attitude for British manufacturers to adopt.

Trade-Marks.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1915, p. 435.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

(*From the "Trade-marks Journal," December 23, 1914.*)

"CÆSAR"; for chemicals (2). By H. B. Sharman, 6 The Pavement, Northwood, Middlesex. 364,072.

"LEECYL" (in script): for disinfecting-fluid (2). By L. A. Lee, 80 Gracechurch Street, London, E.C. 364,483.

"MARQUESS"; for goods in Class 3. By V. R. Wilks, 5 Clarendon Road, West Hartlepool. 363,241. (Associated.)

"TARLO"; for medicines (3). By T. Armitage, Ph.C., 8 Elthorne Terrace, Boston Road, Hanwell. 363,922.

"GLAXOGEN"; for chemicals (3). By J. Nathan & Co., Ltd., 88 Gracechurch Street, London, E.C. 364,395. (Associated.)

"FORMONES"; for chemicals (3). By Regesan, Ltd., 7A Laurence Pountney Hill, Cannon Street, London, E.C. 364,416. (Associated.)

"EXINDIGINE"; for medicinal preparation (3). By E. Yorke and S. Mordin, Atlas Chambers, Berridge Street, Leicester. 364,541.

"OGENO"; for chemical substances (3). By H. S. Wellcome, Snow Hill Buildings, Holborn Viaduct, London, E.C. 364,661.

"VICTRA"; for all goods in Class 11. By W. Edwards & Son, 157 Queen Victoria Street, London, E.C. 364,429.

"ARCADIAN LAWN" (no claim for "Lawn") and "WRITERLETTE"; for paper (39). By Boots' Pure Drug Co., Ltd., 37 Station Street, Nottingham. 364,614 and 364,617.

"NEWPHOGEN"; for food-substances (42). By F. Newbery & Sons, Ltd., 27 and 28 Charterhouse Square, London, E.C. 364,590.

Letters "E. J." on scroll pierced by arrow; for goods in Class 48. By E. Jackson, 67A St. Quintin Avenue, Kensington, London, W. 362,385. (Associated.)

Letters "I. O. U." on scroll (no claim for "I. O. U."): for goods in Class 48. By Torula Syndicate, Ltd., 181 Moston Lane, Manchester. 364,342.

"FORMOLOX"; for a dentifrice in Class 48. By T. Christy & Co., Old Swan Lane, Upper Thames Street, London, E.C. 364,504.

(*From the "Trade-marks Journal," December 30, 1914.*)

"VERTEX"; for goods (2). By Selfridge & Co., Ltd., 400 Oxford Street, W. 364,356.

"ADIANTE"; for all goods (2). By W. Birch, 78 Bath Street, Birmingham. 364,675.

Pharmaceutical Society of Great Britain.

Council-meeting.

THE monthly meeting of the Council was held on January 6 at 16 Bloomsbury Square, London, W.C. The new year has begun with an improved form of agenda, devised by the Secretary and Assistant Secretary, which is calculated to facilitate the proceedings. The President was again absent, but a cablegram which he sent from Colombo on New Year's Eve was read. The Vice-President, who was in the chair, referred to the death of Mr. W. Saunders, of London, Ontario, an honorary member of the Society, and it was agreed to send a letter of sympathy to the relatives. Among the correspondence was a letter from Mr. Francis Ransom announcing that his late father has left a legacy of 100*l.* to the Benevolent Fund. The Committee of the last-mentioned Fund made grants amounting to 125*l.* Several members took occasion to emphasise the enthusiastic work which Mr. Chater does for the Fund. The Secretary mentioned that the Leeds Chemists' Association has contributed 56*l.* 12*s.* to the Belgian Doctors' and Pharmacists' Relief Fund. The report of the Local Associations' Executive Committee dealt with the arrangements for the conference with the British Medical Association and the deputation to Mr. Masterman. A pronouncement regarding the sale of laudanum was also made.

THE Councillors present were Mr. E. T. Neathercoat (Vice-President), Mr. W. H. Gibson (Treasurer), and Messrs. C. B. Allen, F. E. Bilson, A. S. Campkin, W. G. Cross, J. H. Cuff, W. L. Currie, F. J. Gibson, R. L. Gifford, J. F. Harrington, J. Harrison, L. M. Parry, F. A. Rogers, P. F. Rowsell, F. P. Sargeant, T. A. White, and J. R. Young.

NEW-YEAR GREETINGS.

The minutes of the previous meeting were read and confirmed, after which the VICE-PRESIDENT stated that a cablegram, dated December 31, had been received from the President from Colombo as follows: "President sends Council New-Year Greetings." The President of the Pharmaceutical Society of Ireland also sent seasonable greetings.

DEATH.

The CHAIRMAN then referred to the death of Mr. W. Saunders, of London, Ontario, an honorary member of the Society, much identified with the progress of pharmacy in Ontario. He frequently visited England, and was occasionally present at the meetings of the Society. A letter of sympathy was directed to be sent to his relatives.

ELECTIONS AND RESTORATIONS.

The names of sixty-eight members and thirty-five student-associates were proposed and duly elected. Thirteen persons were restored to their former position in the Society. One name was restored to the Register of Chemists and Druggists.

APPRENTICES REGISTERED.

The Registrar's monthly report on registrations of apprentices or students stated that thirty-nine had been registered.

CORRESPONDENCE.

A letter from the Privy Council Office asked for the observations of the Council regarding a letter received from the Association of Certificated Dispensers. This was left with the Vice-President to deal with.

The Privy Council also called attention to an extract from "The Lancet" respecting the alleged ease with which poisonous drugs can be purchased, and asked whether the Society takes any special measures for reminding chemists of their statutory obligations.

In reply to Mr. Young, the SECRETARY said the letter in no way infers that the Society is not carrying out its functions. A provisional reply has been sent detailing the steps taken to remind chemists of their duties. The Secretary added that the police are prosecuting the chemist in this case, and that the Society is giving assistance in the matter.

The Birmingham University asked for recognition of the Junior School Certificate of the University. The Board of Examiners had recommended recognition, and the Council passed the necessary resolution.

The Western Pharmacists' Association forwarded a resolution relating to the obligations now thrown on pharmacists with regard to doses in excess of those given in the British Pharmacopœia, 1914. The matter, said the Vice-President, will be brought before the conference which was being held that afternoon with the British Medical Association.

The Salford Association brought forward the question of the altered strength of tr. opii, B.P. 1914, and suggested that the synonym "Laudanum" should be deleted from the Pharmacopœia. The matter had been discussed by the Law Committee on the previous night, and the following recommendation was adopted by the Council:

"That the policy to be advocated by the Council in regard to the sale of laudanum should be that when 'laudanum' is asked for the 1914 preparation should be supplied and the poison-book signed; but when the 1898 preparation is demanded, care should be taken to label it accordingly, and the attention of the purchaser should be called to the fact that it is the 1898 preparation."

The Salters' Company signified their agreement to the postponement of the Research Fellowship which had been awarded to Mr. Edgar Rogers.

Mr. Francis Ransom, of Hitchin, informed the Council that his late father, Mr. William Ransom, has left a legacy of 100*l.* to the Benevolent Fund. This will be paid in due course.

The North London Pharmacists' Association forwarded a resolution in regard to Pharmacopœia revision, in which it was suggested that the Council should cease to render any assistance until such time as a co-partnership between medical men and pharmacists should be established.

The Board of Trade forwarded a handbook on Shop-Assistants, prepared for the use of Advisory Committees for Juvenile Employment.

The SECRETARY reported that the section dealing with chemists and druggists had been prepared under the supervision of the office.

MEMBERS IN THE ARMY.

A pharmacist serving with the Forces suggested that members and student-associates with the Colours should remain honorary members or student-associates during the period of the war.

The SECRETARY suggested that the names be allowed to remain on the lists if application is made before April 1. He added that of twelve students who passed the Minor one day last week ten have enlisted.

The VICE-PRESIDENT thought the Council would readily agree to the suggestion, but Mr. YOUNG suggested that as there would be a difficulty in getting the recommendation as to notice before the members it would be better to suspend the subscriptions.

The SECRETARY said he was afraid that would raise legal difficulties, and the Council therefore agreed to the first suggestion.

FINANCE COMMITTEE.

The TREASURER presented the report of the Finance Committee, of which the following is an abstract: The receipts for the General Fund during December amounted to 5,129*l.* 9*s.*, made up as follows: Penalties and costs, 67*l.* 11*s.* 6*d.*; "Journal," 25*l.* 1*s.* 10*d.*; "B.P. Codex," 15*l.* 7*s.* 6*d.*; subscriptions, 15*l.* 15*s.*; registration-fees, 75*l.* 12*s.*; examination-fees, 1,757*l.* 16*s.*; rent of room for meetings, 10*l.* 10*s.*; restoration-fee, 1*l.* 1*s.*; certificates of qualification, 8*l.* 11*s.*; school-fees, 51*l.* 12*s.* 2*d.*; sundry sales, 42*l.* 19*s.* 3*d.*; repayment of Pharmaceutical Committee's election expenses, 13*l.* 14*s.* 5*d.*; London County and Westminster Bank deposit, 3,000*l.* [since invested in War Loan]; interest on loans, 33*l.* 17*s.* 4*d.* The balance remaining after making the payments ordered at the last meeting of the Council was 539*l.* 16*s.* 6*d.*, from which the following amounts were recommended to be paid: "Journal" and publications, 88*l.* 19*s.* 1*d.*; stationery, etc., 86*l.* 16*s.* 8*d.*; current expenses, 700*l.*; salaries, etc., 337*l.* 13*s.* 8*d.*; school and examinations, 60*l.* 3*s.* 9*d.*; law and professional charges, 18*l.* 16*s.* 6*d.*; house expenses, 3*l.* 0*s.* 11*d.*—a total of 1,300*l.* 10*s.* 7*d.* The balances on the Benevolent Fund were as follows: Current account, 31*l.* 12*s.* 3*d.*; donation account, 15*l.* 12*s.* 2*d.*; Orphan Fund, 48*l.* 15*s.* 4*d.*

In moving the adoption of the report the Treasurer drew attention to the increase of 471*l.* in examination-fees over the amount at the corresponding period of last year. The amount of Benevolent Fund subscriptions is also higher. Among the donations was one of 30*s.*, proceeds of a smoking-concert of the Chemists' Assistants' Association.

The report was adopted, and a resolution passed authorising the Treasurer to pay the Benevolent Fund annuitants the amount of their annuities quarterly.

BENEVOLENT FUND.

The report of the Benevolent Fund was next presented by Mr. ROGERS. Grants amounting to 125*l.* were recommended, this including three of 20*l.* to each of the unsuccessful candidates at the election for annuitants. Mr. Rogers hoped that members would not forget the claims of the Benevolent Fund on chemists. He also read a letter from the Public Trustee acknowledging the help which the Fund had been in obtaining the admission of the orphan Williams to an orphanage.

Mr. CAMPKIN referred to the services of Mr. Chater in the administration of the Fund. It was he who worked out the details of the new scheme for electing annuitants.

Mr. YOUNG and Mr. ROGERS also paid a tribute to Mr. Chater's enthusiasm in the matter.

The report was adopted.

THE IMPROVED AGENDA.

Mr. ROWSELL called attention to the improved form of the agenda for the meeting, and said the thanks of the Councillors were due to the Vice-President.

The VICE-PRESIDENT disclaimed responsibility for the improvement, which, he said, had been carried out by the Secretary and Assistant Secretary.

The new form of agenda embodies in eight pages the arrangements for the various committees which are held on the day before the Council-meeting, as well as the subjects to be dealt with at the latter meeting. It also indicates to each member at what committees his attendance is required.

LIBRARY COMMITTEE.

The report of the Library, Museum, School, and House Committee authorised the purchase for the school of a four-guinea balance, a Fleuss air-pump (6*l.*), and a centrifuge (12*l.*) out of the grant from the Board of Education. An account for 8*l.* 0*s.* 11*d.* for house repairs was approved.

The report was adopted.

PARLIAMENTARY AND GENERAL PURPOSES COMMITTEE.

The report of this Committee mentioned that Mr. Woolcock had been appointed one of the Hon. Secretaries of the Belgian Doctors' and Pharmacists' Relief Fund.

The SECRETARY interposed to remark that he had received most of the subscriptions promised by the Councillors at the previous meeting, and that from the Leeds Chemists' Association the handsome sum of 56*l.* 12*s.* had been received.

The rest of the report was taken up with that of the Local Associations Executive Committee. The chief items in the latter report were those regarding the Conference on Insurance matters which had been arranged for that afternoon with the British Medical Association.

The SECRETARY reported that he had prepared an exhaustive statement for presentation to Mr. Masterman in regard to the drug fund deficiency, and also referred

to the arguments which it was proposed to submit on the subject of "Administrative Expenses of Pharmaceutical Committees, the mile limit, the delay in payment of chemists' accounts, and on the stock mixtures."

The Committee expressed cordial approval of the case which the Secretary had outlined. The Committee recommends that the following should constitute the deputation to wait upon Mr. Masterman for the purpose of presenting the above-mentioned particulars: The Vice-President, Messrs. Deakin, Josephs, Kemp, Rowsell, Sargeant, and Waring, and such other representatives as the Vice-President may deem advisable or necessary.

The Committee considered an application from a medical officer of health asking for statistical information in regard to diachylon and other substances used as abortefacients. The applicant was recommended to refer to the Society's official "Journal."

The CHAIRMAN referred to the value of the conferences which had been arranged with the British Medical Association, and in regard to the deputation to Mr. Masterman he said that, although the statement which will be submitted cannot be published, pharmacists may rest assured that no point has been omitted that can further the interests of pharmacists. The Council is not prepared to allow certain unsatisfactory features in the pharmaceutical service to continue if there is any chance of removing them.

Mr. ROWSELL, Mr. HARRISON, and Mr. GIFFORD also spoke appreciatively of the work that has been done by the Society.

Adoption of the report concluded the public business.

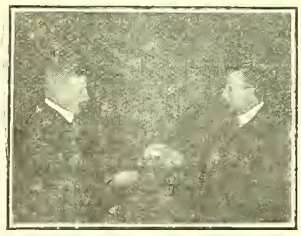
Winter Session

of Meetings of Trade Associations.

(See also "Insurance Act Dispensing.")

Birmingham.—At a meeting of the Council of the Birmingham Pharmaceutical Association on January 5 it was reported that Sir Thomas Barclay and Messrs. Mann, Poole, Radford, Wakefield, and Smith had, together with representatives of the local medical organisation, formed a joint local Committee to carry out in Birmingham and the Midland district the work inaugurated by the Central Committee of the Belgian Doctors' and Pharmacists' Relief Fund. A resolution was passed pledging the meeting to do everything possible to assist this work, and a preliminary list of subscribers was formed.

Chemists' and Druggists' Society.—A smoking-concert, under the auspices of the Chemists' and Druggists' Society of Ireland, was held on December 30 in the Society's Rooms, Waring Street, Belfast, when there was a large attendance. The guest of the evening was Quartermaster-Sergeant R. A. Jamison, 8th Battalion Royal Irish Rifles, who is one of the Hon. Secretaries of the Society. Mr. Wm. Gibson (President of the Society) occupied the chair, and among those present were Messrs. S. Gibson, J.P., Wm. Haslett, Samuel Suffern, W. J. Rankin, Jacob Walsh, Samuel McDowell, Samuel Nevin, David Taylor, James Macauley, Geo. Johnston, David A. Perry, Albert Davis, F. Boyle, J. A. McRoberts, Fred Storey, A. M. Gamble, A. R. Hogg, A. M. Simpson, F.C.S., and Wm. Martin (Hon. Secretaries). During the evening Quartermaster-Sergeant Jamison was presented by Mr. Wm. Gibson, on behalf of the Society, with a gold albert and medal on the occasion of his joining Kitchener's Army. Complimentary speeches were delivered by Messrs. Suffern, S. Gibson, W. Haslett, W. J. Rankin, J. Walsh, F. Storey, F. Boyle, A. M. Gamble, A. Davis, S. Nevin, and D. A. Taylor, all of whom wished Mr. Jamison a safe return. Mr. Jamison briefly acknowledged the gift, and said he should ever remember the kindness he had received from the members of the Society. An enjoyable programme was provided by Messrs. A. Simpson, Fred Storey, Frank Boyle, A. M. Davis, and S. Nevin. Mr. Hogg took a flashlight photograph in the course of the evening, and we reproduce the central figures.



THE PRESENTATION.

Recipient on the left, the President on the right.

Dundee.—At a recent meeting of the local Pharmaceutical Association the following officers were appointed: *President*, Mr. John Anderson, and *Secretary*, Mr. James Robertson, 150 Ann Street, Dundee.

Essex (S.E.)—The annual meeting of this Association was held at the Welcome Club, Southend-on-Sea, on December 30, the President (Mr. J. H. Heywood) in the chair. The balance-sheet was presented by the Hon. Treasurer (Mr. Body), and was passed. Before vacating the chair, the President gave an account of the efforts made by him to retain Southend under the administration of the County Insurance Committee. He did not succeed, however, and as he had expressed his views somewhat strongly in the Insurance Committee, he felt somewhat a marked man, and did not think the best interests of the chemists concerned would be met by his retention of office on the Insurance Committee. The following officers were appointed for 1915: *President*, Mr. S. F. Body; *Vice-President*, Mr. J. H. Heywood; *Hon. Treasurer*, Mr. J. G. Cowe; *Hon. Secretary*, Mr. C. Goode; *Committee*, Messrs. Body, Holloway, Cowe, Lee, Heywood, Nowell, Carpenter, and King. These names were also put forward as prospective candidates for the Pharmaceutical Committee. It was decided that the voluntary levy for the Benevolent Fund should be forwarded to the proper quarter. It was also resolved that the name of the Association be changed to Southend-on-Sea Association in order to meet the new conditions of the Insurance area, and that the members who were outside that area be invited to continue as hon. members. This applies to Rochford, Grays, Tilbury, and Burnham districts. A pleasing tribute was paid by the President and members to the work of Mr. C. Goode, the Hon. Secretary, and, as an expression of their appreciation, it was decided to use the balance of the year's funds in purchasing some suitable present for Mrs. Goode, to be presented to her in the name of the Association. It was decided to forward the name of Mr. C. Goode to the Commissioners to act in place of Mr. Heywood, resigned, upon the Southend Insurance Committee.

London (N.).—The social evening arranged for the North London Pharmacists' Association for December 31 was undertaken by the organisation of "The Script" on its transference to the County Association. The social was what it is hoped will be the first of a long series arranged for the benefit of the Pharmaceutical Benevolent Fund. In order that the retail pharmacists in London may help in raising funds for Belgian pharmacists and medical men, it was decided to hand over the proceeds to this Fund, and keep open a "Shilling Fund" until January 20, so that those who could not be approached might have an opportunity of helping in a worthy cause. A few friends provided the expenses, and the proceeds to date are about 12*l*., which sum, it is hoped, may be doubled. The Bohemian concert on December 31 began at 10.30 and finished at 12.5 A.M., Mr. Herbert Skinner occupying the chair. The hall of St. Padarns, Holloway, was well filled, over seventy being present. An excellent programme had been arranged. Miss Teresa Jennings opened the concert by singing "God Save the King," in which the audience afterwards joined. Mr. Charles Bradbury rendered "The Scientific Man," and, being encored, kept the audience in laughter with "My First Cigar." Miss Jennings sang "There's a Land." The encore enthusiastically accorded her had to be postponed owing to an incursion from a neighbouring Haggis gathering bent on entertaining the pharmacists. Jock Walker, the Scottish comedian, took the place by storm with his marvellous energy and rollicking songs. Miss Ena Bowie recited "The Telegram" very cleverly, and had to answer a recall. Mr. Charles Darville proved himself an accomplished ventriloquist, which is somewhat unusual in a chemist. Mr. Duncan Bowie and Mr. R. H. Fountain gave a duet, "The Gendarme," and the audience, being now at concert pitch, vociferously recalled them. Refreshments were served, smoking permitted, and conversation was general. Afterwards Miss Jennings gave her postponed encore, singing "Sincerity." Mrs. H. C. Payne sang "My Ain Folk," and as an encore "Annie Laurie." Twelve o'clock struck, bringing the Chairman to his feet with general good wishes and a toast for the New Year. Those present linked up round the hall and sang "Auld Lang Syne" with energetic zest. The accompanists were Mrs. Skinner and Mr. C. Bradbury. The President of the North London Association (Mr. J. Hearle) moved a vote of thanks to the artists and the Chairman, which was received with musical honours.

Manchester Assistants.—The Manchester Chemists' Assistants' Association held a social evening at the Clarion Café, Market Street, Manchester, on January 6, about one hundred ladies and gentlemen being present. Three members of the Association who have joined the Colours attended. They were Messrs. Burgess (Sherwood Foresters) and Messrs. Fox and Lomax (R.A.M.C.). Mr. James Grier, M.Sc. (President of the Manchester Pharmaceutical Association), and Mr. J. Cleworth and Mr. Flint were also present. Mr. Kirby, as Chairman, and Mr. Jones, as Secretary, had got an excellent programme of music and song together, which was thoroughly enjoyed by all present. The performers were all connected with pharmacy. Mr. Granville Shaw gave three 'cello solos, and his recitation "On Strike" brought forth great applause. Two duets by Mrs. Dickenson and Miss Taylor (who are sisters) were the hit of the evening. Other performers were Messrs. Farrow, Fynnes, Smith, Harry Levi, and Hudson, and Mr. and Miss Hough. During an interval refreshments were provided, after which Mr. James Grier spoke on the work of the Ambulance class in connection with the Association, and asked the members to revise their work and prepare for the forthcoming examination, which would be held in about six weeks' time. Votes of thanks concluded the evening.

Society of Chemical Industry.—A meeting of the London Section was held at the Northampton Polytechnic Institute, Clerkenwell, E.C., on January 4. Dr. Hodgkinson (the Chairman) presided, and the lecture-room was quite full. The meeting was occupied by a paper, with demonstrations of the various kinds of electric furnaces employed in the manufacture of nitrates from the air. Mr. E. Kilburn Scott, the lecturer, began by giving an idea of the importance to a country of the manufacture of nitric acid within its boundaries, and of the extent to which the manufacture of nitric acid from the air is carried out in European countries. The various kinds of electric furnaces employed were then described, with their relative advantages and disadvantages, and also the following principal points to be considered in the design of a furnace: (1) To ensure that as much of the air as possible is brought into contact with the arc flames; (2) to draw off and cool the fixed gas quickly; (3) to dispose the electrodes so as to minimise adjustment and renewals; (4) to provide automatic regulation of current and continuity of working. The furnaces referred to were those of Birkeland & Eyde, the Schönherr-Hessberger furnace, and the Pauling furnace. All these furnaces work with single-phase alternating current. The lecturer then described a new furnace which he has devised, which works with a three-phase current, and for which several advantages are claimed. The demonstrations were much enjoyed, and there was a short discussion afterwards, in which the chief point raised was as to the commercial possibilities of Mr. Kilburn Scott's furnace.

British Pharmacopœia, 1914.

In Australia.

Copies of the British Pharmacopœia, 1914, were sent by the General Medical Council to the Agent-General of each of the States of the Australian Commonwealth for transmission. The idea underlying this was that the copies should be made accessible to the public before the date of publication. Copies reached Australia on November 11. The "Chemist and Druggist of Australasia" hopes that future issues of the British Pharmacopœia will be produced nationally, and at regular and more frequent intervals.

Publications.

C. J. HEWLETT & SON, LTD., 35 to 42 Charlotte Street, London, E.C., are sending out a four-page synopsis of the principal changes in the new Pharmacopœia. The additions, omissions, and alterations are separately arranged. A copy will be sent to any pharmacist who sends a postcard request.

MESSRS. J. & A. CHURCHILL inform us that they are publishing revised editions of several books based upon the British Pharmacopœia. A new work is the "Book of Pharmacopœias," by Messrs. E. W. Lucas and H. B. Stevens, which will summarise about 5,000 formulas of modern British and foreign Pharmacopœias.

DRS. MARTINDALE AND WESTCOTT are producing a new edition of the "Extra Pharmacopœia," which is to embody all the changes necessary through the publication of the British Pharmacopœia, 1914. It contains, what is equally important in the "Extra," information on new drugs and methods of medical treatment which have been introduced since the fifteenth edition was published. Special treatment has been made of the trade-marks and patents of alien enemies. The work will again be in two volumes, at 21*s.* net, or 14*s.* 4*d.* and 7*s.* 3*d.* separately. We reserve further particulars until the work is published.

EVANS SONS LESCHER & WEBB, LTD., have forwarded with their January price-list a very useful brochure on the new Pharmacopœia. It is divided into sections, giving the full particulars of various alterations and the differences in the strengths of the altered preparations. To a busy pharmacist who wants to refer to something in a hurry, this compendium is "just the thing."

"A SYNOPSIS OF THE BRITISH PHARMACOPŒIA, 1914," by Mr. H. Wippell Gadd, F.C.S., was published by Baillière, Tindall & Cox on December 31 at 1*s.* net. It is similar in arrangement and style to the Synopsis of the 1898 B.P., which went through seven editions, the best evidence of its popularity and suitability for students. It also contains particulars of the poison-laws of Great Britain and Ireland, and other useful information.

UNDER THE TITLE of "Notes on the British Pharmacopœia, 1914," C. R. Harker, Stagg & Morgan, Ltd., Devon Wharf, Emmott Street, Mile End, London, E., publish a reprint of articles which have appeared in the "Pharmaceutical Journal." Mr. Bird's alcohol table, an almanac, and other useful matter which usually appears in the company's "Calendar" are also given. The booklet contains about sixty pages, and is being sent out to customers.

JAMES WOOLLEY, SONS & CO., LTD., Manchester, are issuing to their customers a card, suitable for hanging up at the dispensing-counter, which gives a summary of the more important changes brought about by the new Pharmacopœia. The headings of the tables are: Preparations Altered in Strength: (1) Strength Increased, (2) Strength Reduced; Alterations in Composition; Additions to the Pharmacopœia; and Alterations in Titles. The card will prove useful.

THE BRITISH DRUG HOUSES, LTD., London, have in the press, and will shortly issue, "The B.D.H. Guide to the B.P. 1914." With their price-list for January they have circulated an eight-page pamphlet, which describes concisely (1) substances and galenical preparations which have for the first time been made official; (2) new names of old articles; (3) names of articles which have been altered in strength or composition. The pamphlet is as useful as the information is concise and to the point.

Press Comments.

Someone has been deluging morning and evening newspapers with an article or paragraphs about the Pharmacopœia, and we endeavour in the following paragraphs to give the gist of what is said by the more important organs. The information appears to have originated from a common source:

The "Daily Mail" states that every drug in the Pharmacopœia can be obtained in England at the present time.

The "Daily Telegraph" erroneously states that only seven years have passed since the British Pharmacopœia was thoroughly revised. The omissions and additions are enumerated, and much is said about the merits of liquid paraffin.

The "Yorkshire Herald" considers the Pharmacopœia more remarkable for its omissions than its additions, but says that a great deal of valuable and up-to-date information is supplied. Doubt is expressed as to the wisdom of increasing the strength of potent preparations, such as laudanum, but the introduction of the metric system is favourably commented on.

The "Aberdeen Free Press" states that, while most of the drugs that have been discarded are little known and little used, a few of them are still popular, such as sarsaparilla, gamboge, musk, and dandelion extract, and doctors of the old school will no doubt continue to prescribe them. Special mention is made of some of the "new" drugs of the Pharmacopœia which have hitherto been known under German trade-marks. Some of the alterations in strength are noted, particularly laudanum.

The "Glasgow Herald" states that the omissions and additions are of less interest than the changes in the strengths of a number of potent preparations. It is pointed out that the alterations are, in most cases, made with a view to promote international uniformity. The increase in the strength of laudanum is looked upon as the most important from the point of view of the public, and it is stated that it will be a pity if chemists do not take full advantage of the opportunity which the bringing of

laudanum within Part 1 of the Poisons Schedule affords for discouraging its sale.

"The Times" takes up the question of the adoption of the metric system, and states that it is conceivable that before the time comes round for the compilation of the next Pharmacopœia the metric system may be so generally used by doctors for prescriptions and by chemists for dispensing that the Imperial system—omitted now from the mixing instructions—can be omitted also from the instructions for doses. It is probable that the metric system is in much greater use in various manufactures for delicate weights and adjustments than is generally supposed.

The "Daily Chronicle" says that Herbert Spencer, were he still with us, would be grieved at the action of the General Medical Council in compelling chemists to use the metric system when dispensing drugs. A clause in Spencer's will provides that "if, within ten years after my death, a Bill shall be introduced into Parliament for the compulsory adoption of the metric system, my pamphlet entitled 'Against the Metric System' shall be reprinted from the stereotyped plates, with such corrections as are indicated in a copy of the pamphlet which I have deposited in my safe; and that such reprinted pamphlet shall be distributed gratis, and at the expense of my estate, among Members of both Houses of Parliament, and shall be put on sale by my publishers at a nominal price."

The "Observer" says: "The introduction of the metric system of weights and measures as an alternative for dispensing has led to the impression that all pharmacists would in consequence have to instal weights and measures according to that system. . . . It will not be necessary for chemists to change their balances, as the metric weights can be used on the dispensing-scales prescribed by Board of Trade regulations. . . . The important point is that in future students will be taught to prescribe and dispense under a curriculum which allows metric as an alternative to the Imperial system. The superiority of the more scientific method will make itself felt in years to come, and the modern-trained doctor will by the nature of things impose upon the chemist the necessity of working by the metric system."

The "Star" (London) considers that the most important feature is the fact that the Imperial system of weights and measures has been discarded. The "Star" anticipates that it will take ten to sixteen years for the metric system to come into general use, and that the new system will only affect manufacturing chemists at present, and even with them it would be quite a simple matter to use the avoirdupois weights. The disappearance of sarsaparilla, musk, etc., the lead and arsenic limits, and some of the changes in strength of potent preparations are noted. Our contemporary adds:

> The "Pharmaceutical Journal" has already commenced to publish equivalent formulæ giving the proportions in the old style, and thus providing the omission in the new Pharmacopœia.

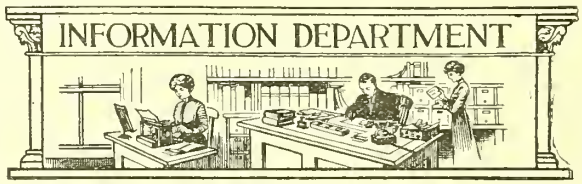
It is distinctly unkind to remind our contemporary that it is so much "behind the fair." The *C. & D.* had finished printing equivalent formulæ eight weeks before, and ere the end of the year every subscriber had received the information in collective form in the *C. & D. Diary.*

TRADE IN 1914.

THE Board of Trade Returns for December 1914 cover also the export and import trade of the United Kingdom for the whole year. A preliminary note states that the accounts of goods exported include goods bought in the United Kingdom by, or on behalf of, the Governments of the Allies, but do not include goods taken from British Government stores and depôts, or goods bought by his Majesty's Government and shipped on Government vessels. We find that the year's imports are valued at 697,432,649*l.* and the exports at 525,720,311*l.*, so that the total is still well over the milliard figure which was reached for the first time a few years ago. In 1913 the imports were valued at 768,734,739*l.* and the exports at 634,820,326*l.*, so that the falling-off consequent on the war is about 13 per cent. only. We shall deal later with the whole report, but note meanwhile that the imports of chemicals, drugs, dyes, and colours in 1914 are valued at 12,030,905*l.*, compared with 12,905,515*l.* in the year preceding, and the exports of similar goods amounted to 19,529,722*l.*, compared with 21,974,386*l.* in 1913. The latter consisted of British manufactures, apart from which 1,500,010*l.* of foreign and Colonial goods of the same nature, this figure comparing with 1,640,939*l.*, the value of 1913 exports.

C. & D. DOSE AND METRIC CARD.

THE first edition of this card was sold out within four days of publication, and repeat orders are coming in. The card measures 11 in. by 8 in., and is looped to hang up. On one side of it are tables showing (1) the strengths and doses of official preparations which have been altered in potency by the B.P. 1914, and (2) the doses or uses of new articles and preparations. On the reverse of the card are tables of metric conversion factors and equivalences. These show (1) how to convert metric quantities into imperial—*e.g.*, grams and c.c. (or millilitres) into grains (or minims), drachms, ounces, and pounds; (2) how the reverse can be done, with methods of converting prices by one system into the other. The tables of equivalences form a ready-reckoner. The card is supplied at 2*s.* 6*d.* per dozen, or 6*d.* for two, or 4*d.* each, post free, and orders, with remittance, should be sent to the Book Department, *C. & D.*, 42 Cannon Street, London, E.C. The Department will also quote for parcels of a hundred with the name and address of the chemist upon each. We find that a number of our subscribers desire to present a card to each of the medical men in their district, and one's own name on the card makes it a permanent advertisement.



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Telegraphic Address: "CHEMICUS, CANNON, LONDON" (two words).
Telephone Number: 3617 CENTRAL (three lines).

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated. Please address us as above:

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217/59. "Eagle" pile-pills.
217/21. "Santro" transparent indiarubber teat.
216/28. Machinery for making collapsible tubes.
215/31. Precipitated carbonate of barium, free from iron and sulphur compounds: British makers.
215/64. "Sanophen."
213/19. "Essex Farmers'" poison.
213/190. "Esco" (Cornford & Co.).
217/560. Dodd's gout pills.
217/56. Teething necklaces (similar to Gehrig's).
218/18. "Paragon" mercury.
217/56. "Collin Joint" surgical scissors.
218/16. "Pink popular cachets, 55 and 56."
218/46. Bowker's cheretta balsam.
219/44. Turner's surgical silk: maker.
217/56. Manicure-sets, British manufacturers.
221/42. Pain's "Oblator" cachets.
221/45. "Annalee" ointment.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.:

Acetyl cellulose, 218/72
Aluminium measures, 217/45
Bandage-making machinery, 219/25
Bromo-carpine, 218/17
"Cinnaquin," 216/58
Cocoa-butter substitute, 217/57
Cofectant, 219/22
De Jongh's cod-liver oil, 219/47
Epsom salts, 213/73
Formaldehyde, 217/49, 218/720
Grinding machinery, 203/70
"Hexanatrine," 218/4
Hydrochloric acid (pure), 209/69
Ichthyol substitutes, 191/18
I.R. tubing, 198/24
Iron oxide hydrated, 186/22
"Ixidama," 214/58
Japanese toothache-drops, 194/50
"K.E.R." brand surgical enamelled ironware, 217/45
"Kallofuge" corn-plaster, 211/25
"Kerpods," 209/62
Liquid for use in Leather's ozonator, 16/7
Luctin, 216/60
Lozenge-making machinery, 216/28
"Luxtone," 211/44
Malt diastase (American make), 216/20
Medical batteries, 217/56
Manicure-sets, 212/22
"New Sylo" vacuum fruit flask, 216/57
Paukreon, 218/56
Perfume bottles (British made), 217/561
Petrogell, 214/51
Refills for pocket lamps, 215/30
Sal lycol, 218/19
Stauffer's yeast tablets, 152/27
Swansdown powder-puffs, 213/28
Syringes, glass, 217/560
Tablet machinery, 211/22
Tammalite, 218/1
Ucal brand lactose, 215/56
Urillac, 218/560
Vacuum flasks (British make), 210/32 and 202/14
Wicker Eau de Cologne bottles, 217/4
Wooden pill-boxes, 208/3

Observations and Reflections.

By Xrayser II.

The Year 1915

will bring us to the centenary of two events in our history, one of them of the greatest possible importance to the nation at large, the other of almost equal importance to two branches of the medical profession—if I may be allowed to include in that term our humble department of pharmacy. On June 18, 1815, the English and German armies finally crushed the power of Napoleon by the victory of Waterloo; some two months later the chemists and druggists of Great Britain, by securing the insertion of an amending clause in the Apothecaries' Act of that year, finally defeated the attempts of the Associated Apothecaries to reduce them to the level of mere vendors of drugs. The extent and importance of this victory may be gauged by the description given of its effect by the Apothecaries themselves. The Act, as finally passed, said their official organ "neither prevented them [the chemists and druggists] from making up physicians' prescriptions, nor even from practising medicine." We may therefore fairly regard this event as our Waterloo, for though attempts were made later to reverse it they were unsuccessful, and our status to-day is built upon the foundation secured for us in 1815. The apothecaries have since dwindled into little more than a curiosity and a name; we, on the contrary, may without boasting claim to have advanced from strength to strength. We shall still have our battles to fight, but they will not be those of a hundred years ago, and in any future struggle we shall have the advantage of a statutory position as assured as that of any enemy we are likely to meet.

The New B.P.

is a smart-looking book externally—indeed, its gay coat is a little out of keeping with the drabness of its contents. It has a disgracefully long list of errata, or, rather, it has two. The first of its name, if I remember rightly, had none. The preface starts badly by misquoting the Medical Act of 1858 in a very unscholarly fashion. There is a curious sentence on p. ix.: "Of synonyms, only the more important of those employed in prescribing have been inserted." "Laudanum" is not employed in prescribing, so that, to avoid ambiguity, this should read: "Of synonyms employed in prescribing, only the more important have been inserted." I notice that the old symbols for a drachm and an ounce are to go. Perhaps it is time they did, but they have been a long time about it.

Mr. G. P. Forrester's Work

on standardisation is well known, and your readers must welcome, as I do, the comprehensive and suggestive article in your last issue. What strikes me at first sight is the remarkable fact that the 1898 British Pharmacopœia did not standardise one single item of a list of nine given by Mr. Forrester, while within seven years the U.S.P. had standardised the whole series. Three years ago the Russian Pharmacopœia standardised eight of the nine, while to-day in our new B.P. we find, to our confusion, that only seven out of nine are required to be of a definite standard. This is an illustration of the way in which we muddle through in medical matters in Great Britain. We are always ready to take up an improvement after the whole world has shown the way, but seldom can we catch up our international colleagues at any stage of the journey. There is one section of the Brussels Agreement where both the British and the Americans are at fault, and it is quite as important as some of those mentioned by Mr. Forrester—namely, the Anglo-Saxon method of working out percentages. In point of fact, most of the 10-per-cent. tinctures of the Brussels Agreement are really 11 per cent. or thereby in America and the British Empire, and this is sometimes a quite serious difference. Some day we may agree on one plan of stating percentages.

The Stoppage of Supplies

of German synthetics is, according to Mr. Adam Duncan, of Edinburgh, no great loss either to medicine or pharmacy. This is only partly true. Where we have efficacious drugs from natural sources, such as cocaine, potassium bromide, silver nitrate, and the like, we do not greatly miss such synthetics as novocain, stovaine, and alypin, the hypnotic series, or the silver proteinates or albuminates of the protargol variety, all of which are no doubt sold at fancy prices. But there are numerous other drugs of the synthetic class that cannot be spared so readily, and now that medical men know their value someone else must make them, if not the Germans. It would be a thousand pities to lose touch with the comparatively new science, which by chemical synthesis is able to build up products having a definite physiological action, and, however long it may be before the war is over, I question if the time will be sufficient for us to train our men in this highly specialised line. We may require to have recourse to Germany for synthetics before the war is over, just as we may have to buy drugs from Central Europe. And when the war is over we shall still be indebted to Germany and Austria, for, indeed, how otherwise can they ever pay the indemnities that will be claimed? Let us therefore keep cool and calm, for I hope even we shall live to see the present hatred and bitterness melt away in peaceful trade and intercourse.

Your Remarks on Laudanum

in mixtures are, as an answer to "G. E. C.," complete and conclusive, but there is one point not touched upon either by him or by you. The alteration in the strength of these mixtures might be dangerous if the same quantity of laudanum as before were put in, which would have to be done when exact quantities were prescribed. In such cases the safest course would be to use the old tinct. opii, and if the prescription were an old one, as it usually is, I see no reason for explaining the matter to the customer. He would be getting what was intended when the prescription was written, and what he had received before. The difficulty is that these non-professional prescriptions are not dated, and one cannot always be sure whether they have been dispensed before. It is, however, certain that in nine cases out of ten the old tincture would be intended, and as explanations are often unsatisfactory I personally should offer none. If anybody should be foolish enough to prosecute in such a case (and there is no telling what an over-zealous inspector will do) the defence should be a good one. The difficulty is not perhaps very important, but it is well to look at the matter in all its aspects. It illustrates, among other things, the folly of making the B.P. a standard in purely business transactions.

The Confusion between Cocoa and Cacao,

or, as you perhaps better put it, between *coco* and *cocoa*, may have been given currency by Johnson's Dictionary, as Murray says, but the mistake attributed to him must, I think, have been partly due to an already existing confusion in a good many minds. Spelling was very erratic among our forefathers, and foreign names were especially liable to go wrong in their insular mouths. How did the fruit of the cacao come to be called *cocoa* at all? This seems to me the first question to be asked, and the error of spelling *coco* as *cocoa* to be comparatively a trivial one. The one is a complete change of name, the other a change of form only, not affecting the pronunciation. Gerard, who is not quoted by Murray in this connection, actually applies the form *coco* to cacao-beans It may be noted, too, that Bailey, who preceded Johnson as a lexicographer, gives the name *cocoa* to the coco-nut palm, though I am not sure that he does so in the earlier editions. By some of our early voyagers the word is spelt *cocoe*, and De la Val says the native name in the Maldives was *Koul*.

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Editorial Articles.

War Sidelights.

"AN individual who has returned from Berlin reports a want in Germany of copper, petrol, chloroform, opium, and morphine, with the result that most of the minor and some of the major operations have to be performed without anæsthetics. This is partly confirmed by German prisoners, but it must not be taken as authoritative or typical of the conditions in the whole of the army." So "The Times" correspondent wrote from Warsaw on January 2. News of this kind has to be received with a certain reserve, as actual facts are inclined to diminish or swell out in the course of travel. Several months have elapsed since we reported a shortage of morphine, but the later news was to the effect that there is enough for the purpose, and Turkey opium is no longer coming to London; it is supposed that it is going to Germany, which means that there ought to be no shortage in morphine or opium now. It is inconceivable that there should be any scarcity of chloroform; Germany has the raw materials in abundance, and makes plenty of it, importing little. All petroleum products are scarce there, however. Throughout Germany, where gas and electricity are not available, paraffin oil is the household illuminant, but in October so little paraffin was left that it was doled out in pennyworths under official supervision. Some of the chemical-works are almost at a standstill, and those of them which employ female labour have been getting the women to knit socks for the soldiers, and do other things of that nature, as the authorities will not allow factories to be closed; otherwise many of them would be owing to lack of business. That economic difficulties are experienced in Germany is undeniable, and is amply demonstrated, so far as the drug and chemical trades are concerned, by the news which we have been publishing weekly for months past. It is inconceivable that the conditions can be anything else than those of a country impoverished of men and means.

The whole world, not merely belligerent countries, is suffering want of some sort consequent on the war. One of the first articles that drew attention early in August was salicylic acid with its derivatives and salts. Prices have advanced, and are likely to go higher, whether war is brought to an early conclusion or not. Our information also points to the fact that values are likely to remain permanently high, as the *ante-bellum* conditions have been entirely swept away. At the present time the manufacture of salicylic acid and salicylates in Germany must be on a much reduced scale, as carbolic acid, which was formerly largely imported from this country, is not allowed to be exported, and our Government has first call upon the stocks for the manufacture of explosives. Prior to the war sodium salicylate in a wholesale way was selling at about 1*s.* 2*d.* per lb., and carbolic-acid crystals at about 3½*d.*, prices in both instances being ridiculously low as the result of competition. If the present rate of consumption continues we shall require within the next six months between seventy and eighty tons of salicylates, and those who are able to judge take a somewhat pessimistic view of the situation

as regards future supplies. We are now dependent upon the efforts of British manufacturers and imports from the United States, the latter, of course, being of German make. When the war broke out stocks in the hands of German chemical agents in London were only small, and they were delivered as far as they would go against contracts. Subsequently the unfortunate buyers had to pay the advancing market prices for further supplies. The German Government has placed salicylates on the list of prohibited exports, and so far as Great Britain is concerned the German authorities decline to permit any products of that nature to come hither. This throws us back upon our own resources. There is plenty of salicin in the country, and this ensures proper treatment of acute rheumatism, for it was salicin that Maclagan successfully used when he revolutionised the old and slow treatment of rheumatic fever. The sooner salicin is restored for this purpose the better. There is some expectation that the manufacture of salicylic acid will be extended, but it is not at present safe to predict that the supplies of it will be equal to the demand when the hot weather comes along.

That a large amount of trading with the enemy is taking place in many chemicals, and that handsome profits are being made, is quite apparent from the statements of imports which we are publishing regularly. Certain firms are doing the business in quite open fashion, and circulating price-lists of chemicals which are not made elsewhere than in Germany, offering them at prices much below other current rates. The bulk of these goods is imported through Holland and Scandinavia (principally Sweden), and to a less extent *viâ* Italy. Last week considerable comment was aroused by the importation of a large quantity of a scarce and badly wanted German chemical *viâ* Sweden. The fact that the German market is legitimately closed to this country has led to a considerable increase in offers of German-made chemicals from the United States dealers, who are evidently importing them with the express object of selling to British buyers. There is nothing illegal in such transactions, but we think it desirable to call attention to the Board of Trade's warning to exporters and importers as regards trading with the enemy which was printed in the *C. & D.*, December 19, p. 35.

Payment of Accounts.

"We are having considerable trouble in the matter of ascertaining who are the firms to whom we ought not to pay accounts because of their German origin, and we wonder whether you could put us in touch with any authority who could give us reliable information."

THIS request, written and addressed to us by a big business firm on December 31, is typical of similar inquiries which we receive frequently, and it appears desirable once more to point out that there is no law or proclamation which prevents any person paying debts due to any person or firm trading in this country, even if that person or firm be Austrian, German, or Turk. We said so in our issue of August 22, p. 47, and the statement then made was fully confirmed by the Treasury, which issued a memorandum on October 28, the first paragraph of which is :

The Trading with the Enemy Proclamation of September 9, 1914, prohibits the payment of any sum of money to or for the benefit of an enemy as defined in the Proclamation—namely, a person or firm resident or carrying on business in Germany or Austria-Hungary. It does not prohibit trade with, or payments to, persons of German or Austro-Hungarian nationality resident and carrying on business in British Dominions.

The full text of the Treasury's memorandum is given in the *C. & D. Diary*, 1915, p. 406. Perhaps there are some doubting Thomases who think a statement by the Treasury has not the force, say, of a judicial decision. If so, they should read the remarks by Judges quoted or referred to in our *Diary*, and since then a decision has been given in the High Court, London, which we reported at the time (*C. & D.*, November 28, p. 51). In this case the Continental Tyre and Rubber Co. (Great Britain), Ltd., claimed payment of 5,753*l.* 2*s.* 11*d.* for goods sold to Thomas Tilling, Ltd. The defendants resisted the claim on two grounds : (1) That the plaintiffs could not sue for the price of the goods during the war because, although they are an English company, the whole, or practically the whole, of the shares are held by alien enemies, for whose benefit, it was said, the payment would be made ; and (2) that the action had been brought without the authority of the company. Mr. Justice Lush held that the action was maintainable, and gave judgment for the plaintiffs, with costs, saying in the course of his judgment :

"Trading in England with a company like this is recognised and permitted by the Proclamation, and Section 1 (3) of the Trading with the Enemy Act, 1914, provides that 'Any transaction or act permitted by or under any such Proclamation shall not be deemed to be trading with the enemy.'"

It is not necessary to go further than this : the judgment is conclusive. Onus is not placed upon the debtor to ascertain whether money that he pays to a creditor *in this country* or any other part of the British Dominions passes, or may pass, to someone *in an enemy country* during or after the war. That is the Government's business. It is also obvious that the possession by any man in this country of a German-looking name is not proof that he is a German, far less an alien enemy. The fact that he resides here gives him, according to the Treasury memorandum, the rights of an Englishman in trading and receiving money for goods sold.

Associated Trade-marks.

IN the trade-marks which we report this week as applied for are several "associated" marks, and it is necessary to explain what these are. They are provided for by Section 24 of the Trade Marks Act, 1905, as follows :

If application be made for the registration of a trade-mark so closely resembling a trade-mark of the applicant already on the Register for the same goods or description of goods as to be calculated to deceive or cause confusion if used by a person other than the applicant, the tribunal hearing the application may require as a condition of registration that such trade-marks shall be entered on the Register as associated trade-marks.

This was a new provision, and three other sections are connected with it, Section 25 dealing with combined trade-marks and Section 26 with series of trade-marks, while Section 27 is as follows :

Associated trade-marks shall be assignable or transmissible only as a whole, and not separately, but they shall for all other purposes be deemed to have been registered as separate trade-marks. Provided that where under the provisions of this Act user of a registered trade-mark is required to be proved for any purpose, the tribunal may, if and so far as it shall think right, accept user of an associated registered trade-mark, or of the trade-mark with additions or alterations not substantially affecting its identity, as an equivalent for such user.

These sections are of special interest at present owing to the trade-marks for aspirin being "associated." In

regard to the provisions, Mr. Sebastian, K.C., in his work on trade-marks, says :

"The central idea of this group . . . seems to be that trade-marks are to be allowed to be placed on the Register by the same proprietor which resemble one another in their distinctive characteristics, but which are to be treated as independent marks, except that they may not devolve on different proprietors so as to bring about the existence on the Register, in different names, of marks which would conflict with one another in material respects if they were not the property of the same owner. Section 24 deals with the case of an application by a person already on the Register for a particular trade-mark to register a new trade-mark bearing such a similarity to the first that it would be disallowed if applied for by a different applicant. . . . It will be noticed that under Section 24 the mark previously registered has to be entered on the Register as associated with the later mark besides a corresponding entry as to the later mark."

A similar opinion is expressed by Mr. Kerley, K.C., who says : "An associated trade-mark . . . only differs from an ordinary trade-mark in its association with other registered trade-marks of the same proprietor and in the consequence of such association—namely, that it can only be assigned with such other trade-marks."

Railway and Dock Delays.

MANY provincial drug houses and dealers wonder why such unusual delay is taking place in the despatch of orders from London at the present time. On inquiry we find the fault appears to be chiefly with the railway companies and the wharfingers, who are working under exceptional conditions. As a result of the war, the Government has first claim on the railways for the despatch of troops and stores—work which is continually going on and will be even more apparent in the spring. Perishable goods are the second consideration of the railways, and ordinary traders come last. We have been informed that goods despatched from London to Manchester or Liverpool have taken a week to reach their destination, and the result is that many traders are becoming short of common chemicals and drysalteries, like tartaric and citric acids, sulphur, and carbonate of ammonia. Apart from the railways, the wharfs are congested with goods, and there is a great scarcity of labour. The same applies to the docks, many ships lying in the river waiting to be berthed and unloaded. The cream of the London dock labour joined the Army Service Corps at the outbreak of war, and the Port of London Authority labour staff has also been depleted of several hundred men. Every effort is being made to cope with the congestion, but the Port was not immediately prepared to deal with the avalanche of produce which has been pouring into London as the result of the closing of German ports.

More German "Kultur."

IN Miss Frances Delanoy Little's recently published "Sketches in Poland" (London : Melrose) we have an exemplification of the fact that German "Kultur" does not imply civilisation, but "thoroughness." In the course of her narrative Miss Little describes the "thoroughness" with which the law was enforced in German Poland in time of peace, leaving us to draw our own conclusions as to the condition of the distressed country now that "Kultur" is advanced by military force. With a view to the assimilation of the Poles the use of the native language is forbidden in education, law, and commerce, though it is, of course, the only language "understanded of the people." At Posen, Miss Little tells us, a chemist supplemented the statutory German poison-label with the word "Poison" in Polish. The chemist knew, and the Prussian authorities knew, that the purchaser of the compound was unable to read German; but the chemist's effort to avert evil results—probably even death—was recompensed by fine and imprisonment; a reward that could only be conceivable by men of a nation which in its "thoroughness" has since shown an utter disregard of all that humanity holds sacred.

"Germany and Chemical Industry."

MR. N. H. MARTIN, J.P., F.R.S.E., Newcastle-on-Tyne, has reprinted in pamphlet-form the address that he gave to the Newcastle Section of the Society of Chemical Industry on this subject recently. Speaking as one who has more than fifty years' experience of making, handling, and examining chemicals, and dissociating himself from the "War on German trade" cry, Mr. Martin emphatically denied that chemical-industry in this country is decadent, but he said that manufacturers in Britain have specific handicaps imposed upon them, and these he considered under the heads "labour," "patents," "registration of trade-marks," and "finance." As to labour, he remarked upon the lower wages and salaries paid in Germany compared with Britain, and the despotic and arbitrary conditions which trade-unions in this country impose upon workmen, the result being restriction of output. As to patents, he referred to the Act of 1907, which he regarded as an example of protection pure and simple; and in reference to trade-marks, he stated that the German has twisted British law to suit his own purpose by, for example, using marks as names of articles as in the case of antipyrin and heroin, the latter being the name of a morphine derivative discovered in this country. As to finance, he considered that there is no lack of capital in this country, and that men with brains and character and a reasonable initial capital can obtain privately from any English bank all the capital which the wise development of their enterprise may require. He viewed with some misgiving the steps being taken by the Government in regard to the encouragement of aniline-dye manufacture, and proceeded to speak optimistically of what chemical-manufacturers have done in this country in the production of caffeine, morphine, and other alkaloids, chloroform, and medicinal chemicals generally. He referred also to the handicap that the anti-vivisection laws are to manufacturers, and, as a Tariff Reformer for thirty years, submitted that we should be prepared to consider wise measures of defence so that any and every industry in this country, including the chemical-industry, should receive fair treatment and be placed on a basis of equality in meeting its foreign competitors.

Almanacs and Calendars.

This column is for brief mention of annual souvenirs presented by retailers to their customers, or issued by manufacturers and wholesalers. Specimens for notice should be addressed to the Editor of the *C. & D.*

MESSRS. LUDFORD & Co., bottle-manufacturers, Brooksby's Walk, Homerton, N.E., have issued a calendar with monthly tear-offs under a remarkably good reproduction of Gribble's painting "Links of Empire," showing a Dreadnought full steam and another battleship behind it.

MESSRS. SMITH BROS. & Co., The Bonanza Drug-stores, Port of Spain, Sangre Grande, and Arima, Trinidad, B.W.I., issue a diary for 1915. There are many pages devoted to advertisements of the firm's special preparations, and the blotting-paper which interleaves the diary is printed upon.

FLETCHER, FLETCHER & Co., LTD., Vibrona Laboratories, London, N., have again published the yearly series of twelve monthly cards to put into the Vibrona Calendar frame. We have had one of these in use for a decade or more, and welcome the new cards, which are printed in black and red.

MESSRS. DIXON & SONS, East Grinstead and Hayward's Heath, issue their Family Almanack and Directory as usual. It contains pictures of the various establishments belonging to the firm, some of these being very striking, as they show the shops before and after new fronts were fitted. The Almanack has a large local circulation, and is especially valued because of the directory it contains.

THE BRITISH CASEIN Co. (1911), LTD., Albumozo Works, 24 Great Dover Street, London, S.E., have forwarded to us copies of their 1915 Pocket Diary and Note-book. It is an elegant little book, of convenient pocket size, fitted with self-registering pencil, and contains a compendium of useful information. An accident insurance coupon is also included. We are asked to state that the company will be pleased to send a copy of the Diary to any of their friends in the trade who may not have received one.

War Wants and Worries.

By "Allan."

II.

A commercial gentleman mentioned that there are few of his fraternity, except drug travellers, at present "on the road," which goes to prove how near the truth was the remark made at the commencement of hostilities by our postman.

A bombshell fell among the shopkeepers when it was announced that shop-windows must not be lit. Our windows advertise only the professional side of our business, consequently we are by no means distressed. A reduced lighting account is a pleasant anticipation.

When the supply of one mineral water ceased, a customer commenced to take, seemingly with excellent results, distilled water made fairly alkaline. We find very excellent recruiting officers among the old ladies. They caused much embarrassment by their inquiry as to how many of *our* young men were away. How relieved we were when at last we could truthfully answer, "One," may well be imagined. He is not very far away yet, nevertheless he is doing useful work.

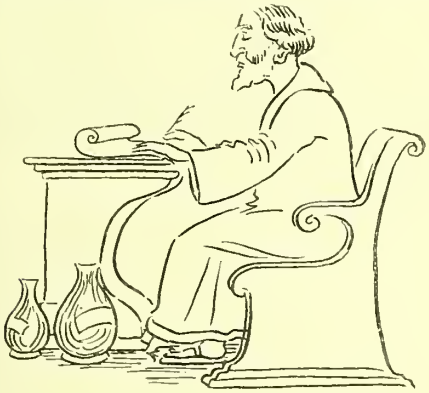
One customer jocularly inquired whether the price of health salt was increased. We answered in the negative, bearing in mind the source of citric acid. The next mail brought to us a formidable list of substances, including the acid, which had been advanced in price. The effects of the war were gradually being brought home to us. An enterprising firm, naturally anticipating a demand, sent to us on sale or return terms some ambulance outfits. It is an ill wind which blows nobody good. As the weeks pass people become more and more accustomed to the abnormal conditions which at present prevail. Enhanced prices are asked, and few protests are heard.

Evolution of the Pharmacist.

(Illustrated by Mr. Granville Shaw, Ph.C.)

II.

If you ransack memory's tome you'll recall that ancient Rome
Stored the culture of 200 A.D.,
That Pergamos was the place where the man who made the pace
For all medicine-mixers (such as you and me)
Lived and wrote and did his part for the chemist and his art:
Eke the Mother-Art of Medicine—so we're told:
Claudius Galenus his name, and upon the scroll of fame
His word is writ in letters tipped with gold.



His prescriptions were a treat and his satire hard to meet.
And they say that to that little shop in Rome
E'en Aurelius used to send for Theriaca (Galen blend),
And the Empress *would* have "Galen's Gilead Balm";
But so be that as it may, we still own to Galen's sway,
And the Greek our patron saint we have enshrined,
And to-day his "special preps." can beat Elliman's—or Peps—
In the profit that their selling leaves behind.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Winter Session.

ENGLAND.

Barnsley.—The Insurance Committee on December 29 decided to ask the Pharmaceutical Committee to forward the balance-sheet at the end of the financial year, before fixing the amount of the grant to be made for administrative expenses. Payments to chemists amounting to 124*l.* 11*s.* 11*d.* for the quarter ended October 11 were passed.

Brighton.—The report of the Medical Benefit Sub-Committee, presented to the Insurance Committee on December 30, stated that an appeal had been received from the Panel Committee against the decision of the Insurance Committee that repeat prescriptions should not be sanctioned. It was decided that, in the event of the appeal proceeding, the Chairman of the Committee, the Chairman of the Medical Benefit Sub-Committee, and the Clerk be authorised to take such steps at the hearing as they may deem necessary to support the action of the Committee. Councillor Black, Ph.C., on behalf of the chemists, entered a protest against the definite decision of the Committee being over-ridden directly they were threatened with an appeal.

Coventry.—Local chemists have informed the Insurance Committee that the adoption of a Formulary is not desired by them, that little economy is possible to the chemist through the use of stock mixtures, and that the proposal to recognise stock mixtures and to insist on reduced dispensing-fees for them is not in the best interests of the insured. The Pharmaceutical Committee advise all chemists in the area to oppose any contract with the Insurance Committee which includes any proposal to reduce dispensing-fees.

Great Yarmouth.—The Panel Committee has objected to a recommendation of the Medical Benefit Sub-Committee that when aqua is ordered without any qualifying word it is to be taken to mean distilled water.

Hertfordshire.—The Commissioners have notified the Secretary to the Pharmaceutical Committee that, owing to the failure of Mr. E. Matthews (Royston) to attend the various meetings of the Committee, they have declared his seat to be vacated. It is now open to the Committee to appoint a pharmacist to fill the vacancy.

Hull.—The Medical Benefit Sub-Committee has passed a resolution that, in their opinion, the arrangements contemplated for the medical treatment of insured persons called up for service with the Forces are not satisfactory for the insured who remain within the city, particularly in cases requiring immediate attention, and when the officer in command of the nearest military station cannot be immediately ascertained or communicated with. They suggest that the best solution of the difficulty would be an arrangement between the Commissioners and the military authorities, whereby treatment could be given by the panel practitioner on the same terms as apply to temporary residents and travellers.—The name of Mr. W. H. Whitelaw has been added to the panel of chemists.—The Panel Committee has recommended a practitioner for surcharge in respect of (*a*) persistent neglect in marking prescriptions "Sanatorium Benefit"; (*b*) prescribing at the expense of the Drug Fund for persons not on his list. The Committee has decided upon a revision of the local Pharmacopœia, the new B.P. now being available.

Isle of Ely.—It was reported to the Insurance Committee on December 29 that out of 17,971 insured persons, 8,284 in rural areas were on the dispensing-lists of the panel doctors.

Lancashire.—The Pharmaceutical Committee is issuing to all panel chemists in the area a pricing-chart for Insurance prescriptions, with directions for using same. The chart is in the form of a ready-reckoner, and gives the prices of drugs (solids or liquids) from 1*d.* to 2*s.* per Tariff ounce (480 grains) at a glance. We understand that this table was constructed by Mr. W. F. Livesey, chemist and druggist, Ashton-on-Ribble, early in 1914, and has proved most satisfactory in use. The idea is excellent, and, so far as we have tested it, the table is accurate. The Insurance Committee have also supplied a four-page leaflet entitled "Additional Notes on Tariff for 1915." It states that each prescription should be dated, and Sanatorium Benefit prescriptions should be marked "S," "as far as lies in the

chemist's power." Where the quality of bandages is not stated, the white open-wove (6 yards long) should be supplied. Accounts are in future to be rendered monthly. After the expiration of each month prescriptions must be submitted for checking and payment within seven days without fail. Each prescription to be priced and stamped with chemist's stamp. The price-list of Evans Sons Lescher & Webb, Ltd., is to be the agreed-upon list for ascertaining the cost price of non-specified drugs. Form 39 (buff sheets *re* war drugs) are discontinued, and a monthly price-list will be supplied in future. Among other directions are: "Scripts for preparations which are obviously toilet-articles, such as Erasmus Wilson's hair-wash, etc., cannot be passed for payment." "The following should not be supplied to the insured person free of charge: Saccharin and tablets, peptonising powders and tablets, hypodermics (solutions or tablets), patent foods, sera, vaccines, patent medicines, and such packed proprietary articles as are advertised and sold to the public." "Alcohol where prescribed in preparations intended for external use shall be deemed to be S.V.M." "Plasters not prepared extemporaneously carry no dispensing-fee." "No dispensing-fee is allowed on ung. boro-zinci, which is boric and zinc ointment in equal quantities." "Where lint is ordered by the yard, charge 5*d*. per yard; boric lint, 6*d*. per yard." Prices for 8 oz. and 16 oz. of ointments . . . have been omitted from the Tariff in deference to the opinion of the Commissioners, but 8-oz. quantities will be accepted in cases of extensive skin-diseases.

Leicester.—The Medical Benefit Sub-Committee reported to the Insurance Committee on December 31 that a letter had been received from the Pharmaceutical Committee protesting against the principle of the stock-mixture clause, and further stating that the pharmacists will, at the first opportune moment, insist on a thorough revision of the terms of service.

Liverpool.—The Pharmaceutical Committee has consistently opposed the use of "Rep. mist." from the beginning, and has finally succeeded in getting it abolished. The Insurance Committee issued on December 31 a circular-letter to panel doctors and chemists, in which the following paragraphs occur:

> Private Formulæ.—In the course of examining prescriptions given by practitioners it has been found that in some cases private formulæ have been used. The Committee is of opinion that such should not be allowed, and the Panel Committee, to whom the matter was referred, has concurred in this opinion. Prescriptions containing any private formulæ will, therefore, not be recognised on and after January 1, 1915.
>
> Repeat Mixtures.—The question of repeat mixtures has several times been under discussion between representatives of the doctors and the Insurance Committee, and, after careful consideration, it has been decided that prescriptions given in the form "Rept. mist." cannot be recognised on and after January 1, 1915.

The Pharmaceutical Committee has pointed out to chemists in a circular that under no circumstances can payment be made for any private formulæ or "repeat" prescriptions which may be dispensed after receipt of the above notice; that this will be rigidly adhered to, and that copies of original prescriptions or private formulæ if written by the chemist cannot be accepted; all such prescriptions must be referred back to the doctor.

Manchester. In the new Book of General Information and Lists of Doctors and Chemists, Section 5 under the Rules for the Administration of Medical Benefit is headed "Procedure of Medical Service and Pharmaceutical Service Sub-Committees," and contains the statement, "In the case of the Medical Service Sub-Committee, the Chairman or Vice-Chairman, together with two representatives of the insured and two of the persons appointed by the local Medical or Panel Committee, and in the case of the Pharmaceutical Service Sub-Committee, the Chairman or Vice-Chairman, together with one representative of the insured and one registered pharmacist, shall form a quorum." No mention was made of the Pharmaceutical Service Sub-Committee in the publication of 1914. Six new names appear on the panel list of chemists, and eleven names have been withdrawn, making five less than in 1914. The medical panel is increased by six. Pink forms were issued last week for Sanatorium Benefit prescriptions in place of white forms. All Sanatorium Benefit accounts which are found to be correct will be paid in full.

Middlesex.—The Insurance Committee met on January 4. Mr. W. S. Glyn-Jones, M.P., in the chair. The Medical Benefit Sub-Committee reported that a further recommendation had been received from the Panel Committee relating to cases of excessive prescribing by two panel practitioners, the amounts involved being 12*s*. 5*d*. and 15*s*. 4*d*. The Sub-Committee recommended that the surcharges proposed by the Panel Committee be made, and to this the Insurance Committee agreed.

Oxford.—At a recent meeting of the Panel Committee it was decided to make arrangements with the Secretary of the Pharmaceutical Committee for an examination of prescriptions to be made at the end of each quarter, and a grant of 5*l*. was made for the necessary expenses. It was reported that the average cost of prescriptions for the quarter ended October 11, 1914, was 7.2*d*., against 7.8*d*. for the corresponding period of 1913. The Committee resolved to recommend practitioners to exercise care (*a*) in specifying quantities, which should not be left to the judgment of the chemist; (*b*) in marking forms under their proper heads; and (*c*) in avoiding, as far as possible, the use of "Rep. mist." It was announced that the Pharmaceutical Committee had notified chemists to continue to use the preparations of the 1898 Pharmacopœia for the dispensing of the local panel Pharmacopœia.

Plymouth.—At the Insurance Committee meeting on December 29 the Clerk, replying to a question by Mr. R. F. Roper, Ph.C., said the Commissioners had required that the Three Towns Friendly Societies' Medical Institution should, if the institution desired, be placed on the panel list. This decision of the Commissioners is against the repeated resolutions of the Insurance Committee to exclude the institution, on the grounds (*a*) that the institution provides no choice of doctor or chemist; (*b*) it is not amenable to the Sale of Food and Drugs Acts, Weights and Measures Acts, or Pharmacy Acts (storage of poisons); and (*c*) it does not employ a qualified dispenser. The Insurance Committee further considered that the statutory regulations provide no check on such institutions as to the use they make of the money claimed—*i.e.*, the money provided for the insured may be utilised for other persons as well. [The Secretary of the Medical Institution has since written to a local paper saying that the institution's fund is entirely separate from the Panel or Drug Funds. Mr. Roper has replied controverting this erroneous statement, and pointing out that "the institution claim, being a sort of first charge upon the Drug Fund, will further impoverish the amount available in Plymouth, seeing the amounts for Approved Institutions are set aside before chemists' accounts are paid. The fact that this institution has cost the Devonport Drug Fund 2*s*. per insured person, against 1*s*. 9*d*. where supplies have been obtained from the chemists' discounts the expected relief to the funds of the amalgamated area."] A deputation, consisting of the Chairmen of the Insurance Committee and Medical Benefit Sub-Committee, with the Clerk, visited the Commissioners on December 30, by appointment, in regard to the alleged excessive prescribing in 1913 and the deficiency of 1,100*l*. on the 1913 Drug Fund. The Commissioners accepted the Pharmaceutical Committee's report under Regulation 40 as complete, but were of opinion that the Panel Committee had not fulfilled its obligations in failing to make a surcharge on the responsible prescribers, and that the Panel Committee must do its part before the Treasury can be approached to supplement the funds available for the Drug Fund. The grounds on which the Panel Committee has taken no action in regard to surcharging are: (*a*) The delinquents (if such there are) are on active service, and are therefore unable to defend themselves as the regulation prescribes; (*b*) panel practitioners have been called upon to treat double the number of patients calculated for by the Government actuaries; and (*c*) members of the Government have held out such prospects of luxurious treatment to the insured that doctors have already fallen short in the expectations of their patients.

Portsmouth.—The Finance Sub-Committee recommended to the Insurance Committee on December 31 that the request of the Panel Committee for a voluntary levy on the doctors for administrative expenses (including share of the cost of checking prescriptions) be acceded to for the third and fourth quarters of 1914, in so far as the Committee were empowered to do so by the vouchers given to them by panel practitioners. —The Pharmaceutical Committee met on December 31, when three members attended. The Secretary (Mr. A. B. Sparrow) reported that he had taken exception to the action of the Clerk of the Insurance Committee in issuing the new list of panel chemists without first submitting it to the Pharmaceutical Committee, and to certain names being put on the list before the Clerk had ascertained that the firms in question were eligible. The Clerk to the Insurance Committee attended, and explained that he had visited all the establishments in question, the result being that one firm had withdrawn and the others were making arrangements to comply with the law. The panel now consists of forty chemists, two limited companies, and one

firm of surgical-instrument makers (for appliances only). The medical panel contains sixty-eight names. It was reported that there is not sufficient money available in the Drug Fund to pay the last quarter's accounts, but it is hoped that the money will be forthcoming when the audit takes place. It was recommended that a meeting of the panel be held during the next fortnight, and in the meantime chemists are urged to send in accounts as promptly as possible to enable the Clerk of the Insurance Committee to submit a statement of the position. It has been decided to apply for 80*l.* for administrative expenses.

Sheffield.—A meeting of the Insurance Committee was held on January 6. The Clerk reported that Dr. A. E. Barnes, Secretary (*pro tem.*) of the Panel Committee, had been elected by the Commissioners to serve on the Committee. He had also to report that the number of chemists and others on the panel for the supply of drugs and appliances is seventy-seven, one less than in 1913; but the number of pharmacies is the same (106), and is sufficient to provide an adequate service. The Committee considered a protest from the Panel Committee against the credits allowed by the Commissioners for 1913. This protest was supported by a letter from the Pharmaceutical Committee (*C. & D.*, December 12, 1914, p. 59), and it was decided to inform the Secretaries of the Panel and Pharmaceutical Committees that a Sub-Committee of the Insurance Committee is prepared to meet Sub-Committees of their Committees in regard to the matter. The Finance Sub-Committee recommended the following payments: Seventh payment for 1914 to chemists (75 per cent. of their accounts), 848*l.* 2*s.* 9*d.*; to chemists for appliances to be held by panel practitioners, 19*l.* 7*s.*; advance to Secretary of Pharmaceutical Committee for administrative expenses, 30*l.* Panel chemists are requested to note the necessity of presenting separate accounts for sanatorium prescriptions (yellow) and temporary residents' prescriptions (green), so that the Drug Fund may not be depleted by the amounts of these accounts. The Secretary of the Pharmaceutical Committee, within the next few days, will post to each panel chemist a list of prices, in accordance with the Supplementary Drug-list, for preparations in the Panel Formulary.

Smethwick. Panel chemists have been requested to refer back to the practitioner any person presenting prescriptions to be dispensed where it is within the pharmacist's knowledge that the person prescribed for is serving with the Forces.

West Suffolk.—The Insurance Committee have appointed a joint Committee, consisting of two representatives each of the Medical Benefit Sub-Committee, the Panel, and Pharmaceutical Committees, to initiate a scheme for the checking and statistical analysis of prescriptions and chemists' accounts.

Worcestershire.—The General Purposes Sub-Committee reported to the Insurance Committee on January 2 that it had considered a resolution by Mr. W. J. Brewster, "That the Committee be recommended to express its disapproval of the dispensing of stock mixtures." After discussion by the Sub-Committee the resolution was modified as follows: "That the Committee express its disapproval of any alteration in the Pharmacopœia which might lead to the dispensing of inferior drugs," and in this form the recommendation was approved by the full Committee. The same Sub-Committee also recommended: "That the Committee represent to the Commissioners that the restrictions in the Food and Drugs Acts, which exempted prescriptions given by panel practitioners from coming under its provisions, should be repealed." This was also approved.

Yorkshire.—One chemist has resigned from the panel for the West Riding area, and the panel now consists of 329 dispensing contractors (420 shops) and twenty-six non-dispensing contractors (thirty-one shops). Sixty per cent. of the chemists' accounts for October and November has been paid. Panel chemists have now been supplied with the prices of special war-priced drugs for January, and with a list of charges for mixtures in the West Riding Formulary, which will also be supplied monthly. It has been decided that the net prices in the list of Allen & Hanburys, Ltd., are to be taken as the standards of cost for such drugs as are not included in the Tariff.

SCOTLAND.

Surplus for Doctors.—The Secretaries of the British Medical Association (Scottish Committee) and the Pharmaceutical Standing Committee (Scotland) have been informed by the Scottish Commissioners that the Commission proposes, in a few days, to apportion the balance of the General Medical Benefit Fund for 1913 among the several Insurance Committees, and to pay it over to them for distribution among practitioners and chemists. The balance will amount to about 45,000*l.* It is pointed out by the Commissioners that for some considerable time further small sums will fall to be credited to the Fund for 1913, and the Commissioners propose to carry these into the Fund for 1914. The balance will be distributed among Insurance Committees in proportion to the number of index slips held by each Committee, and the method of division in each area is the subject of negotiation.

Edinburgh.—A meeting of panel practitioners was held last month to consider the proposal of the Commissioners to charge a portion of the expenditure of the Central Prescription-checking Bureau to the Drug Fund (*C. & D.*, December 26, 1914, p. 62). After full discussion it was decided (*a*) to approve of the establishment of the Bureau; (*b*) that the checking of prescriptions is a part of the administration of Medical Benefit; and (*c*) that the practitioners present see no reason why they should relieve the Insurance Committee of what they consider to be a part of its administrative expenses. The Chairman (Dr. Dewar) warned those present to exercise the utmost economy in prescribing, in order that the expenditure on the Drug Fund might, if possible, be kept within the limit.—Panel lists of doctors and chemists for 1915 have now been issued to post-offices in the city area. The medical panel contains 117 names (including one homœopathic doctor), and the chemists' panel includes 119 pharmacists and six persons who supply appliances only.

Forfarshire.—At a meeting of the Panel Committee last month a letter was read from the Commissioners stating that, in their opinion, vaccination, for which calf-lymph would be provided at the expense of the Drug Fund, comes within the scope of Medical Benefit. It was reported that the Commissioners were prepared to allot to the Pharmaceutical Committee for administrative expenses such further sums as would not, with any sum allotted to the Panel Committee, exceed 1*d.* per insured person. The Committee decided to put forward a claim for the available balance, after deduction of the 30*l.* already allotted to the Pharmaceutical Committee.

Perthshire.—The Panel Committee decided last month that it is undesirable that certain articles in a list submitted by the Pharmaceutical Committee should be prescribed, and that such articles should be surcharged in future, but that no practitioner should be surcharged in respect of any prescription written prior to the date of issue of the circular in regard to the prescribing of proprietary articles (July 11).

Stirling.—At a recent meeting of the Insurance Committee a letter was read from the Pharmaceutical Committee explaining that they had agreed to pay one-third of the Insurance Committee's share of the upkeep of the Central Prescription-checking Bureau. Dr. Vost stated that, so far as he could learn, while the Commissioners insisted that the Committee must take part in the formation of the Bureau, they had no legal claim upon the doctors or the chemists for any part of the expenses. The Clerk said it must be borne in mind that the formation of the Bureau was due largely to the request of the doctors and the chemists.

WALES.

Denbighshire.—The Clerk reported to the Medical Benefit Sub-Committee on December 14 that all the chemists on the panel had accepted service for 1915, and that the panel for 1915 consisted of forty-eight chemists (having fifty-seven places of business) and four persons supplying drugs and appliances only. The Clerk also reported on the checking of prescriptions for the period July 12 to October 11, 1914. The number of prescriptions was 20,574, 1,511 being scheduled on Form Med. 39. The average cost per form was 6.33*d.*, compared with a little over 7*d.* for the previous quarter. The total claims amounted to 570*l.*, of which 546*l.* was allowed, this being 111*l.* less than in the corresponding quarter of 1913. In response to a request by the Panel Committee, a careful scrutiny as to the quantity of malt and oil prescribed during the year ended October 11, 1914, had been conducted. It was found that 1,407 lb. had been prescribed by twenty-five panel practitioners, three of whom prescribed 852 lb., and one of these 549 lb. The doctors in three districts had prescribed 1,070 lb. of the 1,407 lb. for the whole county. The Sub-Committee considered that the quantities prescribed were excessive, and that the matter should be referred to the Panel Committee for consideration. A communication from the Association of Welsh Insurance Committees as to the establishment of a Central Prescription-checking Bureau was considered, and it was decided to recommend the Insurance Committee to reply that, owing to the very satisfactory results attained, they have decided to have the checking of prescriptions done by the Clerk as heretofore.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., January 7, 6.30 p.m.

THERE has been little doing since our last report, this being nothing unusual in the first week of the new year. Wholesalers and manufacturers are, however, very busy, both on home and export account, and there is no reason to complain of dearth of business in these quarters. At the moment the inquiry for fine chemicals has fallen off, but with few exceptions very fair arrivals are taking place, principally from the United States, and prices generally are easier. Salicylates are, however, a notable exception, and during the first six months of the year are likely to advance further. Arrivals of drugs continue good, as France, Italy, Holland, and Spain are sending roots, barks, herbs, leaves, etc., which were formerly obtained from Germany and Austria. Market changes, which are few, include an advance in English castor oil (other descriptions being scarce), Japanese mint oil (on c.i.f. terms), glucose, antimony, shellac, and peppers. Articles showing a decline comprise formaldehyde, hexamine, cream of tartar, star-anise oil, and West Indian lime oil.

Higher	Firmer	Easier	Lower
Antimony	Peppers	Canary-seed	Anise oil (star)
Cantharides (Chin.)	Shellac	Cloves	Apiol
Castor oil (English)	Sulphonal	Cream of tartar	Formaldehyde
Coriander-seed		Hexamine	Homatropine
Glucose			Lime oil (W.I.)
Hydrastin and salts			
Linseed			
Mint oil (e.i.f.)			

Cablegram.

NEW YORK, January 6.—Business in drugs is quiet. Opium is 10c. per lb. lower at $8.90. Menthol is steady at $2.50. Peppermint oil in tins has a firmer tendency at $1.35. Hydrastis (golden seal) is dearer at $4.50, and Cartagena ipecacuanha is also higher at $1.95. Buckthorn-bark is firmer at 20c. per lb.

London Markets.

ACETYL-SALICYLATE ACID is firm at from 6*s.* 6*d.* to 7*s.* per lb., parcels "to arrive" from America offering at rather less.

AMMONIA SULPHATE is dearer. Grey 25-per-cent. London, prompt, is 11*l.* 10*s.* net, naked at works; Hull, prompt (24-per-cent.), 12*l.*; Leith, prompt, 12*l.* 7*s.* 6*d.*; Liverpool, prompt, 12*l.* 5*s.*, less 3½ per cent., in bags f.o.b.

ANISE OIL (STAR).—At between 3*s.* 6*d.* and 3*s.* 8*d.* per lb. c.i.f. for "Red Ship" brand a fair amount of business has been done; spot values are from 4*s.* 9*d.* to 5*s.*, the latter price being for single cases.

ANISEED.—Spanish is offering at 40*s.* to 42*s.* 6*d.* per cwt., but the demand is slow. There is no Russian on the spot.

BELLADONNA-LEAVES.—A limited quantity has arrived, and the price, although high, is slightly easier at 200*s.* per cwt.

BENZOIC ACID ex toluol is offered at from 3*s.* 6*d.* to 4*s.* per lb. net.

BROMIDES.—Current British makers' prices are: Potassium, 3*s.* 3*d.* to 3*s.* 6*d.* net; ammonium, 3*s.* 6*d.* to 3*s.* 9*d.* net; and sodium, 3*s.* to 3*s.* 3*d.* per lb. net, the lower price being for 1-cwt. lots. Rather more demand is reported on export account.

CAMPHOR (REFINED).—Business has been done in Japanese 2½-lb. slabs at 1*s.* 9*d.* spot, and also for January-February shipment at 1*s.* 5*d.* c.i.f., with further sellers at 1*s.* 4¾*d.* c.i.f.

The exports from Japan during October were 234,991 kin, valued at 215,822 yen. For the ten months ended October 31 the exports and destinations were:

	1912	1913	1914
British India ...	456,071	745,942	725,185
Great Britain ...	565,908	131,036	343,198
France	454,548	46,341	231,939
Germany	449,199	382,336	289,807
United States ...	309,200	427,277	572,347
Australia	56,613	89,383	80,590
Other countries ...	129,111	215,495	174,817
Kin	2,420,650	2,037,815	2,417,883

CANARY-SEED is slightly easier, but is in rather better request. Ordinary quality has been sold at 89*s.* per quarter, and good at 92*s.* 6*d.*

CANTHARIDES.—Chinese are dearer at 4*s.* 6*d.* per lb. c.i.f. for near arrival, and in more demand, cantharidin being official in the new B.P.

CARAWAY-SEED is firm at 32*s.* 6*d.* per cwt. for good Dutch.

CARBOLIC ACID continues very firm, at 1*s.* 4*d.* per lb. for 39° to 40° C. crystals in large-bulk packing.

CASTOR OIL.—With the bulk of the business falling into the hands of one English concern, the price has advanced 1*l.* per ton to 28*l.* for first-pressing in barrels for prompt to June 1915 delivery, with the usual extra 50*s.* per ton for finest medicinal quality, delivered free on wharf London; cases 50*s.* per ton extra. In Liverpool good seconds Calcutta is quoted 5½*d.* per lb.

CINCHONA.—The auction to be held at Amsterdam on January 21 will consist of 904 bales and 670 cases pharmaceutical bark, weighing 86,606 kilos. The first-hand stock at Amsterdam on December 31 consisted of 11,484 packages Government and 56,960 packages private bark, including the first-hand packages to be offered on January 20 and 21.

The exports from Java to Europe during December 1914 amounted to 646,000 Amst. lb., against 1,333,000 Amst. lb. in December 1913. The total shipments for 1914 amount to 14,021,000 Amst. lb., against 18,711,900 Amst. lb. for 1913.

CITRIC ACID is quoted at from 2*s.* 6*d.* to 2*s.* 6½*d.* per lb.

CITRONELLA OIL.—Java, guaranteed to contain 80 per cent. gerianol, is offered at 4*s.* 3*d.* c.i.f.

COCA-LEAVES.—The auction to be held at Amsterdam on January 21 will consist of 1,759 packages Java, weighing 94,808 kilos. The exports from Java to Europe during December amounted to 1,967 packages, against 2,232 packages in December 1913; and the total exports for 1914 amount to 24,392 packages, against 26,069 packages in 1913. In the course of 1914 16,784 packages, containing 903,638 kilos., of coca-leaves were sold in the Amsterdam auctions, representing 14,918 kilos. of total alkaloid. The average unit was 15.06c. per half-kilo.; the average percentage of the leaves was 1.64

COD-LIVER OIL.—Writing on December 28, our Bergen correspondent reports that there is no business worth mentioning, and that the previous quotation of 94*s.* c.i.f. is nominal. London market is very quiet.

CORIANDER-SEED is dearer at 10*s.* 9*d.* to 11*s.* per cwt. for fair Morocco.

CREAM OF TARTAR is offered at from 140*s.* to 145*s.* per cwt. for 98-per-cent.

CUMIN-SEED is very firm at 40*s.* per cwt. for common Morocco, but for good quality the value is given at 47*s.* 6*d.*, while good Malta is held for 50*s.* per cwt.

ERGOT.—A good business has been done at 2*s.* 9*d.* per lb. for Spanish on spot, with holders asking 3*s.* per lb. No Russian is available.

FENUGREEK-SEED is steady, with sales at 9*s.* 6*d.* per cwt. for good Morocco.

FORMALDEHYDE is offered at the lower rate of 50*s.* per cwt. ex wharf London.

GALLIC ACID is offered at 3*s.* 6*d.* to 4*s.* per lb. net, and *tannic* acid at 4*s.* to 4*s.* 6*d.*

GLUCOSE is dearer at 13*s.* per cwt. for crystal-corn syrup, and solid is 12*s.* 7½*d.* to 13*s.* 1½*d.* as to seller. Powdered *Starch* is quoted 11*s.* 3*d.* and *Pearl* 10*s.* 7½*d.* ex wharf London.

HEXAMINE is tending easier at 3*s.* 1*d.* per lb.

HYDRASTINE.—List prices of makers have been advanced by about 10*s.* per oz. to 110*s.* net for the alkaloid and the hydrochloride or sulphate.

IODINE.—A little *crude* is offered from neutral countries at slightly below the Convention price of 9*d.* per oz. *Resublimed* still continues to be rather scarce for prompt delivery

IPECACUANHA remains firm, sellers of Matto Grosso asking 16*s.* and Cartagena 9*s.* 6*d.*

LAVENDER-FLOWERS.—Spanish are quoted at from 18*s.* to 19*s.* per cwt. f.o.b., and best French vary from 70*s.* to 75*s.*, down to 30*s.* for common

LEMON OIL.—Fair arrivals of new crop are taking place from Sicily, being principally for delivery ex contract. Values on the spot remain unchanged at 4*s.* 3*d.* to 4*s.* 6*d.*, and new crop from 3*s.* 11*d.* to 4*s.* 3*d.* per lb. c.i.f.

LIME OIL.—West Indian distilled is offered at the cheaper rate of from 2*s.* 10½*d.* to 3*s.* per lb. on the spot.

LINSEED is dearer at 48*s.* to 56*s.* per quarter for good to fine.

MENTHOL.—Spot prices are still 10*s.* 9*d.* for Kobayashi and 10*s.* 6*d.* for Suzuki. For January-February shipment there are buyers at 8*s.* c.i.f. and sellers at 12*s.* 6*d.* c.i.f. in combination with oil. More inquiry at the close, with sales of Kobayashi on spot up to 10*s.* 7½*d.* and buyers.

The exports from Japan during October amounted to 7,901 kin (September 7,598 kin), valued at 50,561 yen, and for the ten months ended October 31 the figures are:

	1912	1913	1914
Kin	100,540	179,503	242,044
Yen	1,154,382	2,445,074	1,680,925

The destinations were as follows:

	1912 Kin	1913 Kin	1914 Kin
British India ...	6,722	7,673	11,656
Great Britain ...	28,144	52,586	37,730
France	8,554	25,085	17,829
Germany	37,193	61,639	82,600
U.S.A.	18,365	25,936	80,932
Other countries ...	1,652	6,584	11,297
Kin	100,540	179,503	242,044
Yen	1,154,382	2,445,074	1,680,925

METHYL SALICYLATE is offered at 3*s.* to 3*s.* 3*d.* per lb. net.

MINT OIL.—Japanese dementholised is steady at 3*s.* 6*d* for Kobayashi and 3*s.* 5*d.* for Suzuki on the spot, and parcels afloat are offered at 3*s.* 2*d.* c.i.f.

The exports from Japan during October amounted to 5,660 kin, valued at 15,107 yen, and for the ten months ended October 31 the exports were:

	1912	1913	1914
Kin	135,808	213,099	237,219
Yen	488,034	816,475	720,325

OILS (FIXED).—*Linseed* is dearer at 24*s.* 9*d.* for pipes and 25*s.* 3*d.* in barrels. *Cottonseed* is unaltered at 25*s.* 6*d.* for crude in pipes on spot, 28*s.* for pale refined in pipes, and 30*s.* to 31*s.* 6*d.* for sweet refined in barrels. Ordinary brown *Rape* is 31*s.* to 31*s.* 6*d.* on spot, naked, and 34*s.* 6*d.* for British refined in barrels. Ceylon *Coconut* is 50*s.* and Cochin 60*s.* for prompt delivery, parcels afloat offering at 48*s.* c.i.f. and 50*s.* 10*d.* c.i.f. respectively. *Soya* is firm at 23*s.* 9*d.* per cwt. c.i.f. for December-January shipment.

PARALDEHYDE is quoted at from 6*s.* 6*d.* to 7*s.* per lb., and slightly less to come forward.

PEPPERMINT OIL.—Best brands of American tin oil are unchanged at 6*s.* 9*d.* to 7*s.* net, and at 6*s.* 3*d.* c.i.f.

POTASH CHLORATE remains very scarce at 1*s.* 1*d.*, any supplies being rapidly absorbed for export.

POTASH IODIDE.—The exports from Japan during October amounted to 12,094 kin, valued at 79,816 yen. During the ten months ended October 31 the exports were:

	1912	1913	1914
Kin	47,309	41,159	67,696
Yen	218,923	239,349	440,262

Of *Crude iodine* the exports in October were *nil*; during the ten months they were:

	1912	1913	1914
Kin	12,037	13,859	11,780
Yen	60,637	86,465	71,540

POTASH METABISULPHITE is offered at 70*s.* per cwt. net. It is now being made in this country.

POTASH PERMANGANATE.—German make is offered *viâ* America at 90*s.* per cwt. c.i.f. London, and at 95*s.* net ex wharf London.

QUININE remains unchanged at 1*s.* 2*d.* per oz. for the usual brands of sulphate. A very fair export business is being done, and it is believed that a little improvement in the position is inevitable.

The landings in London during December were 12,000 oz. and the deliveries 94,640 oz., leaving a stock on December 31 of 2,702,368 oz., against 3,409,168 oz. in 1913.

SALICYLATES.—The shortage is likely to continue for some time, but there is a possibility of the French makers being able to spare further quantities. *Acid* is quoted 4*s.* 6*d.* to 4*s.* 9*d.*, and *sodium* at 5*s.* to 5*s.* 3*d.* per lb.

SALOL is obtainable at 5*s.* per lb. net.

SHELLAC is firmer, with a steady spot trade on a basis of 65*s.* 6*d.* to 66*s.* for the usual standard TN Orange. For delivery March has been sold at 66*s.* 6*d.* to 67*s.* to 66*s.* 6*d.* and sellers.

SODA BENZOATE is offered at from 3*s.* 3*d.* to 4*s.* per lb. net.

SODA NITRATE is quoted at 10*s.* 3*d.* for ordinary and 10*s.* 9*d.* for refined; Liverpool is 10*s.* and 10*s.* 6*d.* respectively.

STRAMONIUM-LEAVES continue scarce, with a limited quantity offering at 65*s.* on the spot.

TANNIC ACID is offered at from 4*s.* to 4*s.* 6*d.* net, according to seller.

TARTAR EMETIC is quoted at from 1*s.* 10*d.* to 2*s.* per lb. net for 43 to 44 per cent.

TARTARIC ACID is somewhat scarce at 1*s.* 6*d.* per lb.

TERPENE HYDRATE is offered at 1*s.* 9*d.* to 1*s.* 11*d.* per lb. net.

TERPINEOL is offered at 2*s.* per lb. net.

TURPENTINE is practically unchanged on the week, closing at 36*s.* 3*d.* for American on the spot.

VALERIAN.—The value is about 67*s.* per cwt. c.i.f.

VANILLIN is offered at 21*s.* 6*d.* per lb. net for 100-per-cent.

The Week's Arrivals.

During the period December 30, 1914, to January 6, 1915, inclusive, the following chemicals, drugs, and allied produce have arrived at the principal English ports. Goods *in tr.* are not included. Where not stated, the figures denote packages:

Acetic acid (Rotterdam) 12, (New York) brls. 109
Acetone (Philadelphia) dms. 240
Albumen (Genoa) cs. 20
Alcohol wood (U.S.A.) brls. 70, dms. 37, (Gothenburg) cks. 15
Almond oil (Marseilles) cs. 10
Alum (Boston) brls. 80
Aniline dyes, colours, etc. (Holland) cks. 54, pkgs. 163, (Genoa) brls. 22, pkgs. 208, (France) 100, (Treport) cs. 34, (Paris) cs. 14, (Boulogne) cks. 12
Anise oil star (H-Kong) cs. 20
Antimony crude (Hankow) cs. 1,100
Antimony ore (Shanghai) bgs. 1,800
Antimony ref. (Osaka) cs. 300
Araroba (Bahia) cs. 27
Argol (Catania) bgs. 193, (Barcelona) 39, (Messina) 500
Arsenic (Spain) brls. 50, (Rotterdam) cks. 110
"Balsams" (Maranham) brls. 20
Barium binoxide (Paris) dms. 120
Barium chloride (Genoa) brls. 50
Barium peroxide (Rotterdam) cks. 56
Belladonna leaves and roots (Rotterdam) bls. 40
Buchu (Cape Town) bls. 11
Camphor (Kobe) cs. 15
Canary-seed (Spain) 542
Cantharides (H.-Kong) cs. 30
Caraway-seed (Holland) 108
Cardamoms (Colombo) 120
Celery-seed (France) 20
Chemical products (Dunkirk) cks. 360, (Gothenburg) brls. 14, (Rotterdam) 13, (New York) brls. 108, pkgs. 843, (Paris) pkgs. 93
Citric acid (Palermo) cks. 8, (Paris) cks. 24, (Marseilles) cks. 100
Cochineal (Las Palmas) cs. 10, (Colon) 34
Cream of tartar (New York) brls. 60, cs. 20, (Marseilles) cks. 271
Cubebs (Amsterdam) bls. 30, (Singapore) 99
Dextrin (Holland) bgs. 260, (U.S.A.) 951
Divi-divi (Curaçao) tons 401
Ergot (Barcelona) bgs. 8
Essential oils (Sicily) pkgs. 108, cs. 97, (New York) cs. 177
Farina (Holland) pkgs. 14,663
Formaldehyde (New York) brls. 75
Formic acid (Holland) cbys. 28, blns. 36, crts. 46
Galls (Shanghai) cs. 200
Glucose (New York) 690, (Rotterdam) 37
Glycerin (Alexandria) cs. 126, (Marseilles) dms. 186, (Rotterdam) dms. 32, (Natal) dms. 42, (Barcelona) dms. 50
Glycothymoline (N. York) cs. 555
Gum acacia (Bombay) 106, (Paris) 24
Gum copal (Rotterdam) 35, (Singapore) 276
Gum damar (Batavia) cs. 50, (Singapore) 100
Gum kauri (Auckland) 226
Gums unenum. (Persian Gulf) cs. 110, (Dakar) bgs. 744, (Amsterdam) bgs. 31, cs. 21, (Marseilles) cs. 40
Henbane-leaves (Rotterdam) bls. 43
Honey (Jamaica) brls. 15, (Honfleur) cks. 60
Indigo (Christiania) cs. 21, (Samarang) 49, (Bombay) 53, (Calcutta) 70
Juniper berries (Leghorn) 8
Lavender flow. (Valencia) bgs. 19
Lead acetate (Rotterdam) 3
Lemon oil (Messina) pkgs. 139, (Palermo) cs. 20
Lime-juice (Bombay) cs. 50, (New York) pkgs. 90
Linseed (R. Plate) bgs. 96,032, (Bombay) 1,926, (Calcutta) 2,728
Liquorice-juice (Catania) cs. 46, (Naples) 78
Liquorice-paste (Rotterdam) cs. 60, (U.S.A.) cs. 50
Liquorice-root (Persian Gulf) 156
Listerine (New York) cs. 461
Lithopone (Holland) 1,000, (New York) 80
Magnes. chlor. (Rotterdam) brls. 24
Magnesite (Holland) bgs. 263
Mint oil (Japan) cs. 25
Nut oil (Holland) pkgs. 433, (Bordeaux) 21
Olibanum (Bombay) 34
Olive oil (Marseilles) cks. 53, (Leghorn) cs. 50, (Malaga) brls. 282, (Seville) brls. 330
Opium (Bombay) cs. 24, (Genoa) cs. 15
Orris (Leghorn) 58
Oxalic acid (Fredrikstad) cks. 20
Palm oil (W.C. Africa) cks. 1,892
Papain (Ceylon) cs. 3
Paraldehyde (New York) cs. 25

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Perfumery (France) pkgs. 362
Petrolatum (U.S.A.) 20
Pimento (Jamaica) 84
Potash carb. (Copenhagen) cks. 40, (Gothenburg) 24
Potash caustic (Gothenburg) pkgs. 51, (Rotterdam) cks. 100
Potash chlorate (Gothenburg) brls. 200, (Singapore) cks. 30
Potash metabisulph. (Rotterdam) cks. 15
Potash muriate (New York) bgs. 160
Potash nitrate (Rotterdam) 20
Potash oxalate (Fredrikstad) 20
Potash permang. (Rotterdam) cks. 40, (Gothenburg) cks. 47
Potash prussiate (France) 21
Potash salts (various) (Copenhagen) cks. 73, dms. 60, (Rotterdam) 62, (New York) cks. 30
Quicksilver (Spain) bot. 30
Quinine (Rotterdam) cs. 75
Roots, barks, med. herbs, etc. (Rotterdam) bls. 119, (Marseilles) bls. 633, (New York) bls. 55
Saccharin (Marseilles) cs. 9
Salicylic acid (Rotterdam) cs. 5
Senna (Bombay) bls. 80
Soda benzoate (Philadelphia) brls. 14
Soda bisulph. (New York) brls. 21
Soda caustic (Gothenburg) cs. 20
Soda chlorate (Gothenburg) cs. 11, (Marseilles) cks. 700
Soda hyposulph. (N. York) brls. 600
Soy (Hong-Kong) cks. 250
Sulphur (Girgenti) tons 500, (Catania) bgs. 2,230, cs. 80, brls. 111
Sulphuric acid (New York) cs. 18
Tartar (Barcelona) brls. 174, (Naples) cks. 24, (Alicante) 328, (Marseilles) 239
Tartar emetic (New York) brls. 10
Tartaric acid (Genoa) cks. 20, brls. 8
Thorium nitrate (New York) cs. 30
Trinitrotoluol (Halifax) cs. 5,000
Turmeric (Bombay) bgs. 620
Vanilla (New York) cs. 87
Wax, bees' (Jamaica) cs. 3, (Rotterdam) bls. 5
Wax, carnauba (Maranham) bgs. 133, (Ceara) 1,390, (Parahyba) 2,228
Wax, vegetable (New York) 41, (Japan) 50
Witchhazel ext. (New York) brls. 50
Zinc oxide (New York) 1,885, (Holland) 125

Heavy Chemicals.

January 5.

Chemicals of all kinds remain firm, both on home and export account, and there is every confidence that the outlook will be favourable. In bleaching-powder buyers are still endeavouring to cover forward requirements for contracts over this year at 6*l.* to 7*l.* per ton, while for prompt delivery 7*l.* 5*s.* per ton on rails is asked. Caustic soda opens well, and for home trade 70 to 72 per cent. ranges from 8*l.* 15*s.* to 9*l.* 5*s.*, and 60 to 62 per cent. 7*l.* to 8*l.* per ton on rails. Bicarbonate of soda is quoted 5*l.* per ton in kegs on rails at works. Soda crystals are unchanged at about 45*s.* per ton. Sulphate of copper has advanced, and may be quoted 22*l.* 10*s.* to 23*l.* delivered Manchester. Glycerin is very dull; there is no particular change to report in prices, but buying is on a comparatively small scale. Cream of tartar and acids favour buyers. Cream of tartar ranges from 145*s.* to 150*s.* per cwt. Tartaric acid is 1*s.* 6¾*d.* to 1*s.* 7*d.*; citric, 2*s.* 6*d.* to 2*s.* 7*d.*; oxalic, 8*d.* per lb. Sulphate of ammonia continues in fair demand at 11*l.* 15*s.* to 11*l.* 17*s.* 6*d.* on rails Manchester. Carbolic acid, 39° to 40° C. crystals are unchanged; benzols (50-per-cent.) is quoted 1*s.* 3*d.* per gal., naked, northern delivery. No pitch is offered on spot.

Continental Drug and Chemical Markets.

The following notes chiefly refer to the Hamburg and Berlin markets under date of December 19 and 20:

ANTIMONY.—The Government maximum price of m.60 per 100 kilos. has been paid for crude; the demand largely exceeds the supply.

ATROPINE.—Raw material is scarce and dearer, and the price of atropine sulphate has advanced to m.100 to m.110 per 100 grams.

EUCALYPTUS OIL is becoming scarce, and m.4.20 per kilo. has already been paid.

GUM ACACIA.—Demand has fallen off owing to the high prices asked. Kordofan is m.130 per 100 kilos., and Senegal m.125.

LYCOPODIUM.—Small quantities are offered at m.640 in bags and m.650 in cases. (Hamburg, December 19.)

MENTHOL is quoted m.30 per kilo.

MINT OIL.—Japanese is cheaper, offering at m.13.75 to m.14 per kilo.

OILS (FIXED) AND FATS.—Steam-refined *Cod-liver oil* has been in active demand at m.95 per 100 kilos. *Soya-bean oil* is extremely scarce at m.90 for Asiatic in cases. *Rape-seed* is firm at from m.145 to m.150. *Cottonseed* scarce at m.160 for refined. *Palm-kernel* firm and scarce at m.140. Lagos *Palm* is practically unobtainable at m.120. Cochin *Coconut* is extremely scarce at m.160, and Ceylon is unobtainable. *Earth-nut* (Arachis) oil is scarce at m.110 to m.112. *Castor* is in active demand, but very small quantities are offered; first-pressing is m.260, second-pressing m.250, and medicinal quality m.300. *Tallow* very firm and scarce; technical is from m.100 to m.110, and tallow fit for human consumption m.110 to m.120. *Whale* oil is in active demand, with a continuous advance. Sellers are very reserved, as they expect the export from Norway will be prohibited. It is also anticipated that the export of *Linseed oil* will be prohibited from Holland. The above prices are all per 100 kilos.

OPIUM ALKALOIDS.—The transport difficulties have brought about a further advance. Pure *Codeine* has been sold at m.650 per kilo., and *Morphine* hydrochloride at m.450 to m.470.

POTASH ALUM.—Raw material threatens to become scarce; m.16 to m.17.50 per 100 kilos. is quoted.

POTASSIUM SALTS.—At the end of July potassium salts valued at 8½ million marks were lying at German ports ready for export, but the bulk has now been exported, chiefly to the United States. The exports to that country during November 1914 were about half those of November 1913.

QUININE has advanced by 5 per cent. owing to the high Dutch currency. (Berlin, December 20.)

SHELLAC is being offered through neutral countries, and the price is declining; usual TN is quoted m.210, and better qualities m.240 to m.270.

SILVER NITRATE.—Makers are strictly limiting sales owing to scarcity, and the price has advanced to m.65 to m.68 per kilo.

TARTARIC ACID.—Makers have advanced their prices to m.290 per 100 kilos. in consequence of the scarcity of raw material. Further advances are probable. (Berlin, December 20.)

THEOBROMINE.—Makers of the pure theobromine have advanced their prices by m.20 per kilo. and the sodium theobromine by m.10. Raw material is extremely dear.

TURPENTINE.—The German stocks are exhausted. Spain offers rather cheaply, but the importation is accompanied with so much risk that the use of vegetable substitutes is preferred; these offer at from m.95 to m.115 per 100 kilos.

VANILLIN has been in demand; m.55 per kilo. has been paid, and in Berlin even m.66.

WAXES.—*Japanese* is dearer at m.197.50 per 100 kilos. *Carnauba* is unchanged and in little demand. *Beeswax* is firm, with an advancing tendency, as offers are few.

For the second time since the outbreak of war, Brückner, Lampe & Co. have issued their report, which shows that practically all the drugs and chemicals dealt with have further advanced. These include *Cape Aloes*, stocks of which are practically exhausted, and further imports are not available. *Ammon. Carb.* is in active demand, and as the English competition has been eliminated, German makers can only partially execute orders; price has repeatedly advanced. *Amylic Alcohol* and *Amyl Acetate* have advanced by m.30 per 100 kilos. St. Vincent *Arrowroot* cannot be imported, and is steadily advancing. *Citric Acid* and *Copaiba Balsam* are two products which have declined, there being no demand for either. *Cascara Sagrada* and *Frangula-bark* have advanced by 15 per cent., extract of *Ergot* by 30 per cent., Russian *Anise* by 25 per cent. (stocks almost exhausted), *Star-anise* by 50 per cent. Belgian *Chamomiles* have been unobtainable, and prices have advanced considerably. Alexandrian and Tinnevelly *Senna* stocks are rapidly diminishing and cannot be imported. *Formaldehyde* is in active demand for war-purposes, but orders cannot be executed immediately; price has advanced by 10 per cent. *Mercury* and *Mercurials* have been commandeered by the military authorities, and permission has to be sought for local sales. *Potassium-chlorate* stocks are small, and price much increased; *Permanganate* has advanced 10 per cent. without any special reason. *Morphine* and *Codeine* have not advanced as yet. *Strychnine* is in active demand, and prices are 20 per cent. higher, the same advance applying to *Lithium Salts* and *Vanillin*. Liquid *Paraffin*, ordinary paraffin, vaseline, etc., have advanced in extraordinary fashion. *Terpin Hydrate* is 25 per cent. dearer. *Angelica* and *Lorage* are cheaper, as the crops were good and the demand poor. Roots of foreign origin, such as *Gentian*, *Ipecacuanha*, *Liquorice*, *Hydrastis*, *Sarsaparilla*, and *Senega*, have all advanced, as have all liquorice-preparations. Liquor *Ammonia* is in active demand, the price having advanced m.4 per 100 kilos. *Red Pepper* is becoming scarce, the greater part of the stocks having been taken on behalf of the Austrian army. *Suet* is extremely scarce, with continually advancing prices.

Italian Produce.

There is evidently a desire on the part of importers of Italian produce to bring forward their purchases without any undue delay, the belief existing that should Italy take part in the European war there would be a complete cessation of shipments, the possibility being that all steamers would be commandeered. For the time being the London market is fairly well supplied with Italian produce, such as juniper-berries, orris-root, liquorice-juice, almonds, essential oils (lemon, bergamot, and orange), sulphur, etc.

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Essential Oils, B.P. 1914.

By Ernest J. Parry, B.Sc., F.I.C.

IN any attempt to criticise any given monographs of the new edition of the British Pharmacopœia one naturally in the first instance examines the more general pages of the work, with a view to forming some opinion of its aims and scope. The preface and appendices first attract one's attention. The point which was foremost in my mind when I commenced to read these pages was whether any serious attempt had been made by the General Medical Council to produce a work which might be acceptable as a standard by interested parties, and might be legalised in the near future, when fresh legislation in reference to the sale of food and drugs is likely to take place. The attempts in this direction before the Select Committee on the 1879 Act, and that which sat in 1894-96, will no doubt be remembered, and it would certainly appear to be a very desirable thing that a British Pharmacopœia should be published which the Legislature might accept without opposition as a legal standard under the Sale of Food and Drugs Acts.

An examination of pp. xvii to xxi of the preface does not afford one much encouragement in this direction. The aspect of the Pharmacopœia which has any particular relationship with the Sale of Food and Drugs Acts is, of course, purely analytical, and from this point of view its preparation would appear to be quite parochial. Until the compiling authorities enlarge their outlook on the analytical aspect of the British Pharmacopœia and invite the assistance of accredited representatives of the analytical profession it is probable that the resulting work will continue to show this narrow outlook.

When one finds that so careful a standard of scientific accuracy is adopted as the atomic-weight standard of oxygen as 16, one can scarcely refrain from smiling at the paragraph on p. xi defining a "*drop* for analytical processes." It may be true that a conference of pharmacists determined what a drop of distilled water under given conditions measures, but in the monographs in the body of the work a "drop" of cinnamon oil, of nitric acid, or of solution of ammonia is a variable volume, and the inclusion of such definitions is not of much use, especially as the internal diameter of the dropping-tube is not stated.

Turning to the appendices, one finds several details of analytical manipulation which require some criticism. On p. 520 the free acid in a fixed oil, fat, or wax is to be determined by mixing the oil with alcohol and titrating the mixture with an alcoholic potash solution with constant shaking. In practice, of course, no analyst determines the free fatty acids in this manner. The oil is dissolved in ether, and alcohol added, and the mixture titrated. The titrating solution being soluble in the whole of the mixture, a sharp end-reaction is obtained. This is, of course, the method adopted in all laboratories where fatty oils are usually examined. On p. 521 the saponification of fixed oils, fats, *waxes*, and resins is directed to be carried out by half-an-hour's boiling. This inaccuracy is corrected under beeswax, where we are properly told to boil the mixture for one and a quarter hour (p. 90). No indication is given as to whether the saponification-value is intended to include the acid-value; judging by the fact that the acid-value is specifically excluded from the ester-value of essential oils, one may presume that it is here to be included in the saponification-value.

On p. 523 the determination of alcohols present in essential oils is described. Equal volumes of the oil and of acetic anhydride are to be used, which is unfortunate, since the practice of analysts who are accustomed to examine essential oils has been definitely fixed to a mixture of 15 c.c. of acetic anhydride and 10 c.c. of the oil, because in certain cases 10 c.c. of acetic anhydride is not sufficient. Further, in practice the acetylated oil is always washed with brine, and not with water, as separation is so much more rapid, and the oxygenated constituents are probably slightly soluble in water, but much less so in brine.

It should have been pointed out that the formula given for the calculation of alcohols in essential oils is not strictly accurate, unless all the alcohols are free; where there are esters present (as in peppermint oil) the formula is only approximately correct, and becomes substantially incorrect if the esters are present in large amount.

On p. 525 a correction of 0.00038 per 1° is given for the refractive index of substances. This figure, purporting to be a very delicate one, and relating to the fifth place of decimals, is, in fact, not identical in all substances, and should not have been given. Refractometers are fitted with means to attain a definite temperature, and this temperature should be properly maintained, instead of the slipshod method of using an only approximately accurate correction.

Turning to the individual oils, one is at once struck with the advance on the 1898 edition by the inclusion of numerous additional figures, as noted in the subjoined paragraphs:

Oleum Abietis.—The higher limit for esters is a trifle too low. I gave a maximum of 30 per cent. in the 1908 edition of "The Chemistry of Essential Oils," but as this oil has risen in popularity one has had the opportunity of examining many more samples. Pure oils may have a specific gravity up to 0.925, and an optical rotation up to −43° or even −45°. The refractive index given is distinctly too high. The actual figure will frequently be slightly below 1.4700 at 25°. Limits ought to have been given, as the expression "about 1.474" is purely a matter of opinion. It is also to be regretted that the normal scientific temperature of 20° for this figure has been departed from.

Ajowan Oil.—Surely the use of a 20-per-cent. solution of sodium hydroxide is an unintentional slip. No essential-oil analyst has ever determined phenols in essential oils with a stronger solution than 5 per cent.!

Oleum Anisi.—The statement that the oil "congeals when stirred at about 15.5°, and does not again liquefy below 17°," is not a happy one. Why use the word "about" in conjunction with a half-degree of temperature? Is not 15° *about* 15.5°? Is 14.8° about 15.5°? The proper method of determining the congealing-point should have been given, and in regard to the liquefying-point, in the case of oil of aniseed, an exact definition is required. It should have been noted that the oil may remain at a temperature well below 15.5°, even when vigorously stirred, without congealing. Sowing with a crystal of the congealed oil or anethol should have been mentioned. As commercial men dealing in aniseed oil long ago discarded the unsatisfactory monograph on aniseed oil in the 1898 edition, the present one will hardly disturb them; but had this not been the case, it would have been difficult to write a monograph on this oil more provocative of disputes than the present one.

Oil of Cloves.—As in the case of ajowan oil, 20-per-cent. soda solution has been specified, but will not, of course, be commonly adopted in essential-oil analysis. In practice 5 c.c. of the oil is used, not 10 c.c., as partially obviating several little technical difficulties. It is remarkable that in this case, as in that of oil of ajowan, 100 c.c. of soda solution is to be used for the determination, and the monograph does not say how the uncombined oil is to be measured in the neck of the flask. Is it to be driven up by the addition of water, or of more caustic-soda solution, or what? Full manipulative details, such as are to be found in "The Chemistry of Essential Oils" or the "Yearbook of the Perfumery Record," should have been given.

Oil of Cinnamon.—The use of neutral sodium sulphite in the determination of cinnamic aldehyde, and also of aldehydes in lemongrass oil, is an attempt to set up a method supported by a limited amount of chemical opinion against the practice, recognised throughout the world, of returning these bodies as estimated by the acid sulphite. But as cinnamon oil is rarely so examined, except for wholesale druggists' purposes, and as lemongrass oil is scarcely a pharmaceutical one, the existing method of determination of aldehydes will not be interfered with to any extent in actual practice.

Oil of Copaiba.—The optical-rotation test for the first 10 per cent. of the distillate has had only very limited experimental support, and is, in my opinion, still a matter of doubt.

Oil of Lavender.—As no attempt is made to detect synthetic esters in lavender oil, it would have been wise to

refer to the ester-content as "*natural* esters, calculated as linalyl acetate."

Oil of Lemon.—The upper limit of refractive index is, in my opinion, too high. The optical rotation in some seasons would exclude half the best oil of lemon available. Surely +57° should have been allowed, and even this would often have necessitated the statement on analytical certificates that a given oil is pure, but that it does not comply with the too narrow figures of the Pharmacopœia.

Oil of Rose.—The specific gravity of otto of rose is incorrect. Much of the finest oil in given seasons has a specific gravity well below 0.854. It is a pity that the determinations of geraniol and citronellol are not included.

Oil of Rosemary.—A good many lævorotatory oils of rosemary are not clearly soluble in 10 volumes of 80-per-cent. alcohol.

Sandalwood Oil.—The reduction of the lower limit of the optical rotation of this oil is a retrograde and unnecessary step. The number of pure oils with an optical rotation below −16° is so small that there would have been no difficulty in the occasional bulking of such a parcel. The bulk of opinion of essential-oil experts has been expressed as against such a reduction.

The above criticisms were written before the sheet of "corrigenda" appeared in the volume as published on January 1. The only corrigendum relating to essential oils must be regarded as particularly unhappy. Under oil of cloves the phenols were directed to be estimated by the use of a 20-per-cent. solution of sodium hydroxide. This, having been publicly criticised, has been corrected to a 5-per-cent. solution of potassium hydroxide; but while the same directions have been given for the determination of phenols in oil of ajowan, no similar correction has been made for this oil.

Soap-bubbles.

THE Christmas lecture at the Royal Institution on January 2 was on "Fluids in the Home," and was the third in the series which Professor C. V. Boys is delivering to a juvenile auditory. The following is the report of our youngest contributor:

Father took me to a ripping lecture on Saturday afternoon. I don't think father ought to have been there, as it was for boys and girls, but I expect they let him in because he is a chemist. There was one man there who must have been very old, as he had an ear-trumpet. The chap who lectured was called Boys, but I don't know whether that was his real name. I expect he called himself that because he was lecturing to boys. He did a fine lot of tricks. They had two magic-lanterns, and a chap at the side kept bobbing the electric lights up and down. First, the lecturer talked about oiling machinery, and said it had something to do with "ducks and drakes," but I don't remember how he made it out. Then he took two eggs just alike, only he said one was boiled. Then he said, "I'll show you how to tell the difference by spinning them on a plate." The one that had been cooked stood up on end. He cut the top off the egg and spun it round the side of the plate. It's not so easy as it looks, but when I tried it at home mother said if I didn't get on with my breakfast she would take my egg away. Next the lecturer showed us how a vacuum cleaner works; you could see the dust off his clothes go into a glass box. Then he wanted to show us how they sort out diamonds at Kimberley, but it was a beastly shame the thing wouldn't do what he wanted it to do. Then he started blowing soap-bubbles, and made some awfully big ones. He put one inside the other, and put gas inside some of them, and they went right up to the roof. After that he had what he called a rainbow cup, which was a soap-bubble stretched across a brass ring. When he twirled this at a great rate it turned all sorts of ripping colours, which kept on changing all the time. He said they were Newton's rings. Father says it is not the Newton who makes boxes of colours, but the chap who saw an apple fall off a tree. When we went out they gave us all rainbow cups. I thought it was jolly decent of them. It tells you on the lid how to make the soapy water, but mother says I can only do it in the bathroom, so I shall take mine back to school with me. It was a spanking lecture. I think it was ever so much better than the "pictures."

Correspondence

Memoranda for Correspondents.

Communications should be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with.

Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed, even when the writers use a "nom de plume."

Complete and systematic indexes of the "C. & D." are presented with the last issues in June and December each year. Every subject dealt with week by week is included, and correspondents are advised to refer to these and the "C. & D. Diary" before asking the Editor for information, so as to save time.

1898 : Laudanum : 1914.

SIR,—I read with interest the letter about the sale of laudanum by Mr. A. Stooke in your issue of January 2. His method of labelling will certainly answer the purpose, but I do not think so much wording is required on a slip-label, "Laudanum. Poison. B.P. 1898," being quite sufficient to meet legal requirements, especially with the verbal explanation to each customer as well. I hope Mr. Stooke has not had many slip-labels like the example he gave, as the dose thereon is incorrect, the B.P. 1898 dose for laudanum being 5 to 15 minims for repeated administration, not 5 to 10 minims, as his label shows. Yours faithfully,

Peterborough. CHAS. HAMSON.

Re "Aspirin" Trade-mark.

SIR,—With reference to the article which appeared in your issue of the 2nd inst., we have no desire to enter into a controversy as to the legal position of the trade-mark "Aspirin," but we desire to point out that your statement that if the public has the right to use the trade-mark "Aspirin" which was numbered 221,673, there is not much property left in the word "Aspirin" which is numbered 332,523, is somewhat misleading. The fact that the registration belonging to the German firm has been avoided and the registration belonging to the English company remains on the Register is not quite so anomalous as you suggest, because the earlier trade-mark, No. 221,673, of the German firm, which has been avoided, is not entitled to be used on goods for sale in this country, while the later registration, No. 332,523, which still remains on the Register in the name of The Bayer Company, Ltd., is a mark confined to use on goods for sale in this country.

Yours obediently,

31-34 Basinghall Street, E.C. McKENNA & Co

Names as Trade-marks.

SIR,—Registered trade-marks have really in many cases become an intolerable nuisance, and hence I respectfully protest against the note struck in the closing sentence of your leading article on the Aspirin trade-mark. "Some chemists," you say, "may prefer to sell the product by its chemical name or by a registered trade-mark of their own to distinguish their goods from those of other manufacturers." To this I reply with all possible emphasis, may Heaven forbid! Surely we have had enough trade-mark tyranny without launching out once more on that trackless ocean already strewn with unnumbered wrecks and relics of forgotten business enterprise—relics which rot on the shelves of every pharmacist. Now that we retailers have a reasonable chance of getting rid of our dozen brands of hexamethylene-tetramine by dispensing them under the new B.P. title, let us make an effort to get rid entirely of the hydra-headed incubus, rather than hug our chains and once more throttle ourselves by encouraging the trade-mark abomination. Trade-marks do not "distinguish goods"; they only distinguish names, and, be it added, prices. In the long run the public are diddled out of their money, for they not only pay sweetly for the illusion, but provide

ample means for that advertisement without which the illusion could not be maintained.

Yours truly,

M.P.S., F.C.S. (217/98.)

The Outlook.

SIR,—There is in this week's issue much food for thought. "Jay Mack" appears to have enjoyed his Christmas festivities, for the prospect evidently pleases; "there's still plenty of money to be made in the drug-trade," says he, and if this be the fact, it is one known to the State, for on p. 38 you publish the Sheffield chemists' experience of a compulsory discount of 10 per cent. off their drug-accounts. Chemists are so prosperous to all seeming that they can afford to finance the Insurance Act to the extent of two shillings in the pound! This is really good news for the New Year, and I hope brother chemists appreciate the fact. The general prospects may be fairly bright, but nothing will be gained by depreciating the educational standard. I do not see what is to be gained by shifting "the Latin" from Examination 1 to Examination 2, except that it provides some of the craft with more or less "permanently unqualified" assistants at a low wage. It is not in this way that pharmacy is going to improve. There has been much gas evolved since August in regard to the fine prospects of British trade, but you may look long and anxiously for signs of preparation for it in the way of increased educational facilities. If all the good things talked and written about are to come our way, it will not be by lowering any standard of education—this is a dead certainty.

Yours, etc.,

J. P. N. (215/18.)

A Contrast of East and West.

SIR,—I received by first post this morning one of your "B.P. 1914 cards." At ten o'clock my copy of the official compendium of medicines was on the doorstep. The *C. & D.* had "got home" first of all; so that, had I wanted to prepare any new official preparation, all I had to do was to turn to your card for reference, if I could not work out any calculation for myself. I had the *Diary*, 1915, as well, so I simply copied out the equivalent proportions of the ingredients in various preparations, in so far as the respective metric and old Imperial systems are concerned, and I am as happy as the proverbial sand-boy.

"Jay Mack" foresaw a lot of trouble; but he forgot that the *C. & D.* does all the work for those who are so busily occupied that they cannot grapple with any new system. He appears to be very keen on what he calls "highly paid qualified labour." If Mr. Mack knows anything at all about the drug, herb, oil and colour, stationery, and medicine-dispensing trade, he would be aware of the fact that it is the person who has never passed a pharmaceutical examination of any sort who demands the highest sum by way of wages from any employer. At the present day employers in the drug-trade need not, of necessity, possess any academic qualification. There is no need to hark back to 1868; for no servant has reason to be better equipped, pharmaceutically writing, than the man who pays his salary and who governs his daily duties. The function of registered seller of scheduled poisons is not very highly paid; and, if such a useful member of the community got his deserts, he would command in any civilised country at least a sufficiency of the "needful" wherewith to purchase a crust of bread and cheese once or twice a week. I had hoped that Mr. Mack would have used his powerful influence in the direction of inducing the Council of the Pharmaceutical Society to limit the subjects of the Preliminary examination (to be passed before entry into indentured apprenticeship) to a few—namely, English, mathematics, history, geography, and bookkeeping, with an additional optional "tit-bit," if desired, such as the study of political economy.

"M.P.S." delights us all with his very clear letter. I don't know what the Pharmaceutical Society is "up to," but my Certificate of Registration for 1915 has not arrived with the same promptitude as the *C. & D.* for January 2, 1915. I tremble to think what might have happened to-day if the shop in which I am had not been graced with my credentials as a poison-seller. My shilling was at Bloomsbury on Monday last; but my pharmaceutical badge of service is not at hand. The question has been raised before now as to whether it were worth while to pay for a "scrap of paper" which one did not own by right of law. I join "M.P.S." in wondering if anyone at Bloomsbury happens to be asleep.

Yours, etc.,

January 1. G. E. OLIVER.

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

"At the Counter" To-day.

"Penorth confessions of a sinner."—*William Gill* (Nottingham).

What is "Redding"?

N. M. I. L. (155/37) asks what bird-fanciers require as "redding" to colour the plumage of birds, especially fowls. Can anyone tell us by postcard?

Ancient History.

The Chesebrough Manufacturing Co. send us a letter which they have received this week, containing the following little narrative: "In a small village in Sussex a schoolmistress (myself) was giving a Scripture lesson about Naaman, the leper. The children were made to understand the disease showed itself by white spots appearing on the body, also that the doctors gave the case up as incurable. A small boy, aged five, speaks up and asks the question: 'Why didn't he try vaseline?'"

Legal Queries.

The majority of difficulties in regard to trade law are explained in the legal section of "The Chemist and Druggist Diary," 1915, beginning on page 405.

A. L. S. (193/37).—If the contract for lighting is in respect to the business-premises, the liability for payment is a partnership one from the date upon which the partnership commenced.

Doubtful (211/31).—If you specifically made arrangements with your wholesale house to take advantage of the Moratorium for delaying the payment of the account due to the house, they are entitled to add to the amount of the account the bank interest current during the period of deferred payment; otherwise they are not entitled to charge any interest on the account, unless it was specifically agreed to between you and them.

Kecundo Curo (182/6) puts the following questions: (1) In regard to factories employing forty hands and over in the London area, is it compulsory for the occupiers or owners to be provided by the London County Council or local authorities with certificates indicating that proper facilities for escape in case of fire are in existence? [The occupier must be provided with a certificate from the Borough Council.] (2) Assuming the reply to No. 1 to be in the affirmative, is it legally compulsory for the occupier or owner to take the requisite steps to obtain such certificate? [If the building was erected before 1898, or was in course of erection at that date, it lies with the London County Council to take the first step; but if the factory has been erected since 1898 it lies with the occupier to take the necessary steps to procure a certificate.] (3) Is the owner or occupier liable to any penalty in law for failure to produce such a certificate when called upon by the constituted authority to show it? [The penalty for failure to procure a certificate is 40*s.* per day beyond the date on which a certificate should have been procured. Application should be made to the Borough Council for the necessary particulars.]

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas of them. When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, but give the reference to the issues in which the information may be found. If querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

R. J. A. (219/35).—We are unable to verify the report that the Royal Army Medical Corps is short of dispensers, and the War Office is making no special call for chemists.

G. P. (201/31).—LACQUER FOR WOODEN ARTICLES.—We think you are referring to the enamel paints which give brilliant smooth surfaces, which resemble that produced by lacquering. The last time we gave a formula for enamel paint was *C. & D.*, November 1, 1913, p. 66.

Vicar (196/41).—Manufacture of Lanoline.—This is a big difficulty. In the first place, it is doubtful if you can get the raw material in this country, because the wool-fat, or suint, which is a by-product in wool-washing works in England, is a mixture of the natural wool-fat and the fatty acids from the soapsuds used in washing the wool. The whole of the washings are "killed"—that is to say, acidified with sulphuric acid—and the mixture of wool-fat and fatty acids separated. Liebreich's invention consisted in separating the wool-fat alone from the washings by centrifugal force (substantially, a cream-separator), and the separated fat was purified by suitable treatment, including separation of the heavier or waxy matters by means of suitable solvents. The patent is No. 4,992 of 1882. It was granted to F. C. Gleser, and it was described as an invention of "a new and improved manufacture of fatty matter from wool-fat." You may get a copy of the letters patent from the Patent Office, Chancery Lane, London, W.C., for 8*d*. You might also read with advantage the report of the celebrated action in regard to the lanoline patent, reported in the *C. & D.*, November 25, 1893, and subsequent issues. There is no book on the subject, but by searching the journals of the Society of Chemical Industry you would doubtless get some hints.

J. H. & Co. (207/42).—Deblooming Mineral Oil consists in dissolving in the oil a trace of yellow dye to neutralise the blue fluorescence. Nitronaphthaline is usually employed; it requires from 2 to 3 parts to 1,000 parts of oil.

Ruby (145/15).—Obscuring Bicycle-lamp by coloured varnish.—For this purpose a weak spirit-varnish suitably stained with aniline dye answers well. Equal parts of white hard spirit-varnish and spirit, coloured with aurantia and erythrosin, is a suitable application. Other solvents are employed besides spirit, such as amyl acetate, in which case celluloid is used in place of varnish-gums.

Puzzled (144/37).—Ear-piercing for holding ear-rings is done by means of a special form of piercer, which can be obtained from surgical-instrument makers. The piercer is used from the outer surface of the lobe of the ear, a flat cork being held on the other side. We thought the practice of ear-piercing was extinct.

Clemak (216/4).—Silver-plating Process.—See *C. & D.*, December 27, 1913, p. 100.

H. J. L. (147/40).—Keeping Ammonia Liniment.—The suggestions for keeping ammonia liniment so that it does not go solid generally consist in the use of other oils in place of or additional to olive oil, or varying the pharmacopœial quantities. Alcock, for example (*C. & D.*, July 29, 1911, p. 152), suggests almond oil 3 oz., olive oil 8 oz., solution of ammonia "800" 1 oz. Raubenheimer proposes a mixture of sesame oil 3 parts, solution of ammonia 1 part. Another recipe is equal parts of olive oil, peach-kernel oil, soya-bean oil, and solution of ammonia. These liniments are sold as hartshorn-and-oil.

Esaby (202/28).—Motorists' Liquid-soap.—See *C. & D.*, May 30, 1914, p. 72.

F. W. (203/22).—Rubber Adhesive-plaster.—The following is a good formula; it was communicated to the British Pharmaceutical Conference in 1907 by Mr. G. Pinchbeck:

Resin	4 parts
Japan wax	1 part
Benzoated beef-tallow	8 parts
Anhydrous wool-fat	3 parts
Washed indiarubber	2 parts
Sesame oil	1 part
Lead oleate (precipitated) ...	80 parts
Methyl salicylate	0.6 part
Thymol	0.4 part

Melt the resin, tallow, wool-fat, and wax together; then add the rubber "solution" (prepared by macerating the rubber in five times its weight of benzine), previously mixed with oil. After recovery of the benzine by distillation the whole is strained through three or four thicknesses of gauze, and the lead oleate, previously melted, added. The plaster-mass is then sterilised with the methyl salicylate and thymol, added to the mass at 65° C., and maintained at that temperature for an hour. The plaster is finally spread on sterile material (shirting, cretonne, etc.), observing aseptic precautions. Cover the plaster with sterile gauze and pack in sterile air-tight containers.

A. W. B. S. (199/58).—(1) There is no chemical with the formula "AzK_3" (NK_3) so far as we are aware. The prescriber perhaps intends to order potassium nitrate (AzO_3K or KNO_3). (2) Opium for Smoking.—The preparation of opium for smoking has been described in the *C. & D.* on several occasions. The following is one of the methods:

First an extract is prepared by macerating thin slices of opium in water, filtering, and evaporating the filtrate to a firm consistence. This residue is beaten into a cake about 2 in. thick and turned over and toasted at a charcoal fire. Then with the finger-nail one corner of the cake is lifted, and a sheet or "pancake" about 2 mm. thick is stripped off. This process is continued, and the "pancakes," dried over a bamboo fire, are again put into water, and the resinous matter and calcium meconate precipitated. This "pancake solution" is then filtered and evaporated, the residue being beaten for several hours with large spatulas to introduce air, which favours oxidation, browns the extract, and helps to produce a richer aroma.

A. J. (141/33).—Comedones or Blackheads.—We do not think any recipe containing brandy and sugar-candy for curing blackheads has ever appeared in the *C. & D.* The usual treatment is to squeeze out the hardened secretion of the sebaceous gland by means of the tube of a watch-key, and then apply spirit of camphor or the following lotion:

Precipitated sulphur	ʒij.
Camphor	gr. x.
Gum arabic	gr. xx.
Lime-water	℥ij.
Rose-water	℥ij.

Mix.

This lotion should also be used systematically each night at bedtime.

P. B. D. & S. (Agra) (213/51).—The variety of castor oil known as "tasteless" is prepared by cold pressure from decorticated seeds, and is "first" pressings.

Mac (204/30).—Agua Sublimado is Spanish for mercury-perchloride solution. *Per se* the term is vague; it would require to be known whether the solution is for use as a toilet-lotion or for internal administration.

Musicus (204/20).—Furniture-worms.—For methods of treatment see *C. & D.*, March 28, 1914, p. 82.

Nero (198/6).—Disinfectant for Clothes.—Formaldehyde fumigation would be the best disinfectant for clothes, and the odour is easily dissipated by placing the garments afterwards in the open air.

X Rays (198/18).—Books on Radiography.—Addyman's "Practical *X*-ray Work" (Scott, Greenwood, 10*s.* 6*d.*); Bottone's "Radiography and the *X* Rays" (Whittaker, 3*s.*); Isenthal and Ward's "Practical Radiography" (Dawbarn, 6*s.*); Walsh's "Röntgen Rays in Medical Work" (Baillière, 6*s.*).

H. W. C. (131/15).—Water of Ayr Stone, known also as snakestone, is a variety of hone-slate or whetstone obtained in Scotland.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," January 14, 1865.

Trade Politics.

The leaders of the Pharmaceutical Society have been making great efforts to obtain the support of the members of the trade for their proposed Bill, and the result of their activity has not been unsuccessful. We learn from the opening article in this month's "Pharmaceutical Journal" that at Canterbury every chemist in the place signed in favour of the Bill; that at Leicester all signed but one, the paper having forty-three signatures; that at Brighton forty-five dispensing chemists signed out of fifty-two, and besides these thirty-one assistants also signed; and that in Manchester 116 names were attached to the memorial, and of that number only thirty-seven were those of pharmaceutical chemists. This result certainly surprises us when we remember that the Bill has been framed by the Pharmaceutical Council for the purpose of increasing the power of their Society, and that it offers the chemist and druggist nothing beyond simple registration and a possible participation in the disbursements of the Benevolent Fund. If chemists and druggists, not connected with the Society, are willing to place themselves under the control of the Pharmaceutical Council, without claiming a vote in the election of any new member of that body, they deserve to be treated as men of inferior rank. By resigning the right of self-government they prove themselves unworthy of any higher position than that of bondsmen.

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•Acid. Acet. Glacial, 99 %, 12 6-lb. bots. @ 9d. lb.; 6 lbs. @ 10d. lb.
„ Acetylo-Salicyl., 7 lbs. @ 7/3 lb.; 1 lb. @ 8/- lb.
„ Boric Pulv., 3 cwt. @ 34/- cwt.; 1 cwt. @ 34/6 cwt.; levigd. 3/- cwt. or ½d. lb. extra.
„ Carbol. Xtls., 39/40; 56 lbs. @ 1/3 lb.; 10 lb. Tins @ 13/- each; 36 1-lb. Bots. @ 1/5 lb.; Single Bots. @ 1/7 lb.;
„ Citric Cryst., B.P., '85, 7 lbs. in Bags @ 2/7 lb.; powder ½d. lb. extra.
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„ Oxalic Cryst., 14 lbs. @ 9d. lb.
•„ Phospb. Dil., B.P., 7 lbs. @ 4½d. lb.
„ Salicyl. pulv. 7 lbs. @ 3/9 lb.
„ Tannic, B.P., 1 lb. @ 5/3 lb.
„ Tart., cryst. or pulv., B.P., 1885, 7 lbs. @ 1/8 lb.; parv. ½d. lb. extra.
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Amyli Pulv., 10 cwt. @ 13/- cwt.; 2½ cwt. @ 14/- cwt.; 1 cwt. @ 16/- cwt.
Antim. Tart. pulv. 7 lbs. @ 1/6 lb.

Bals. Copalbæ, pure, 44 lbs. @ 1/8½ lb.; 9 lbs. @ 1/11 lb.; 1 lb. @ 2/2 lb.
Bismuth, P.B., Carb., 7 lbs. @ 11/9 lb.; 3 lbs. @ 12/- lb.

Caffeine, P.B., 1 lb. @ 18/6 lb.
Caffeinæ Cit., B.P., 1 lb. @ 13/6 lb.
Camphor, English Flowers, "not artificial," 5 lbs. @ 2/3 lb., ¼ oz. or ½ oz. 7 lbs. @ 2/4 lb.
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•Chlorodyne, 5 lbs. @ 2/- lb.
•Cbloroform, pure, B.P., 12 8-lbs. @ 1/9 lb.; 8 lbs. @ 1/10 lb.; 6 1-lb. bots. @ 2/- lb.
Colocyntb, Apple, English ground, 1 cwt. @ 1 3 lb.; 28 lbs. @ 1/4 lb.; 7 lbs. @ 1/6 lb.
Conf. Sennæ, P.B., 14 lbs. @ 9d. lb.; 7 lbs. @ 9½d. lb.
Creasote, Beechwood, P.B., 7 lbs. @ 3/6 lb.
Cubebæ, Englisb ground, 28 lbs. @ 1/11 lb.; 7 lbs. @ 2/- lb.

•Dec. Aloes Co. Conc. 1–2, 6 lbs. @ 1/10 lb.; Sinecroco, 6 lbs. @ 1/2 lb.
•„ Cincbonæ (Rubræ) Conc. 1–7, 6 lbs. @ 1/10 lb.
•„ Senegæ Conc., 6 lbs. @ 2/6 lb.

Emulsio Ol. Morrbuæ, 5 lbs. @ 11d. lb.
•Ext. Belladonnæ Liq., B.P., 5 lbs. @ 7/9 lb.; 1 lb. @ 8/- lb.; solid, 7 lbs. @ 4/7 lb.
Ext. Cannab. Ind. Alc., B.P., 1 lb. @ 45/- lb.
Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 10½ lb.; 10 lbs. @ 1/2 lb.
•Ext. Ergot. Liq. P.B., 5 lbs. @ 4/9 lb.; 1 lb. @ 5/3 lb.
•Ext. Glycyrrb. Liq., B.P., 6 lbs. @ 1/7½ lb.
Ext. Hyoscyam., Solid, B.P., 3 lbs. @ 5/1 lb.; 1 lb. @ 5/5 lb.
•Ext. Ipecac. Liq., P.B., 5 lbs. @ 18/- lb.; 1 lb. @ 19/- lb.
Ext. Malti c. Ol. Jecoris, 10 lbs. @ 5½d. lb.
•Ext. Nucis Vom. Liq., P.B., 5 lbs. @ 3/5 lb.; 1 lb. @ 3/8 lb.; solid, 5 lbs. @ 3/7 lb.; 1 lb. @ 3/10 lb.

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„ et Quininæ Cit. P.B., 25 ozs. @ 7½d. oz.
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Fol. Sennæ Tinnev., 1 cwt. @ 4d. lb.; 7 lbs. @ 4½d. lb.
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•Glycerin. Acid. Boric, P.B., 6 lbs. @ 1/6 lb.
• „ Acid. Carbolic. P.B., 6 lbs. @ 1/6 lb.
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„ Belladon. B.P.C., 6 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.
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„ Jalap Comp. P.B., 1 lb. @ 1/9 lb.
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Boxes of 24 Capsules **10/-** *per doz.*

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A Comforting Chest Protector

for Wearing during Chest Affections.

Made in Two Qualities.

COTTON WOOL.

No.	Across chest.	Shoulder to waist.		Retail at
1	8 in.	6 in.	per doz. 6/-	each 9d.
2	10 in.	8 in.	" 7/6	" 1/-
3	12 in.	10 in.	" 9/-	" 1/3
4	15 in.	12 in.	" 10/6	" 1/6
5	19 in.	13 in.	" 12/-	" 1/9
6	21 in.	15 in.	" 15/-	" 2/-

LAMBS' WOOL.

No.	Across chest.	Shoulder to waist.		Retail at
1	8 in.	6 in.	per doz. 8/-	each 1/-
2	10 in.	8 in.	" 10/-	" 1/4
3	12 in.	10 in.	" 12/-	" 1/8
4	15 in.	12 in.	" 14/-	" 2/-
5	19 in.	13 in.	" 16/-	" 2/6
6	21 in.	15 in.	" 20/-	" 2/9

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CUXSON, GERRARD & CO., LTD., Manufacturers of SURGICAL DRESSINGS AND CHEMISTS' SUNDRIES,
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BRITISH MADE BRITISH OWNED

A Proved Healer of Skin Diseases and WOUNDS

Strongly recommended by Doctors

Sphagnol can cure the most acute forms of Eczema, Psoriasis, Acne, Herpes, Ulceration of the Ear, Blepharitis, Ringworm, Dandriff, Hæmorrhoids, and Pruritus

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6 & 8 oz., 1 in. long, at 4½d. per gross.
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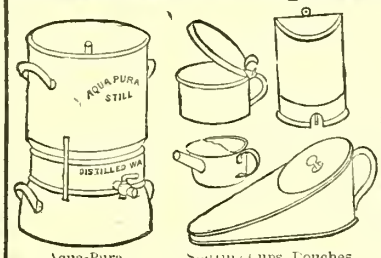

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EVANS SONS LESCHER & WEBB - Limited

LIVERPOOL and LONDON

Also NEW YORK, U.S.A.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, JANUARY 9, 1915.

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., MUST BE PREPAID (except in the case of serial advertisers), and to ensure prompt insertion

REMITTANCES MUST ACCOMPANY INSTRUCTIONS.

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

BEST RESULTS EVERY WEEK!

That is what advertisers in The Chemist and Druggist Supplement secure. Not indefinite returns from spasmodic and inflated circulation, but regular, steady success—the best possible in the Drug Trade. It gives

THE PUBLICITY IT PAYS TO PAY FOR.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, S.E.—Cash Drug Store; situate in main thoroughfare of working and middle class locality; returns between £950 and £1,000; *net profit over* £400 (proof given); good house and garden; rent very moderate; price £450.

2.—LONDON, E.C.—Lock-up shop; returns £834; easily extended; *net profit* £246; terms, valuation of stock and fixtures, between £300 and £400.

3.—WATERLOO STATION (Few Miles Out).—Good-class Retail and Dispensing Business, situate in a residential locality; established many years; returns, present rate, between £1,400 and £1,500, with good profits; the business is known to us, and we can recommend it.

4.—LONDON, S.W.—Good-class Retail and Dispensing Business; situate in busy main thoroughfare; returns £1,420, at good prices; to effect a speedy transfer the sum of £800 will be accepted.

5.—MIDDLESEX (Good-class Residential Locality).—Retail and Dispensing Business; conducted under management; returns £600, increasing; *net profit* £200; convenient house, private entrance; rent £36; price £350.

6.—LONDON, S.E.—Special opportunity; for immediate Disposal, middle-class Retail and Dispensing Business; returns, under manager, about £700; scope for considerable development; price £275.

7.—LONDON (Northern Suburb).—Middle-class Business, Retail and Dispensing; main thoroughfare; returns £900; large, double-fronted shop; price £250.

8.—LANCS.—Retail and Optical, situate in Manufacturing town; main thoroughfare; returns £1,330; *net profit* £560; terms, valuation of stock and fixtures and sum for goodwill to be arranged.

9.—SOMERSET (Main Line of Rail). — Good class Business, Family Retail and Dispensing; established many years; returns last year about £1,300; well-fitted shop, capitally situated; rent £55; to effect a speedy transfer some sacrifice would be made.

10.—HOME COUNTY.—Modern Pharmacy, situate in pleasant district; well-appointed shop and ample stock; returns, present rate, £1,600; the business admits of extension; full investigation invited; terms £100 goodwill and valuation of stock and fixtures.

11.—WESTERN COUNTY (Country Town).—Light Retail and Dispensing Business, well situate in one of the principal streets; returns £500, at good profits; full investigation permitted; commodious residence; terms, valuation of stock and fixtures.

12.—SUSSEX.—Good-class Business, Retail and Dispensing; returns increase yearly, last year being £860; *net profit* £253; double-fronted shop, well fitted and stocked; price £850.

13.—MANUFACTURING TOWN (North of England).—Good-class Retail and Dispensing; little N.H.I.; returns £1,300, at fair prices; large house and garden; price £900.

14.—BRISTOL CHANNEL (Seaport).—Thoroughly sound Retail and Dispensing Business in busy main thoroughfare; returns £1,500 yearly; capital premises; to effect a speedy sale vendor will accept valuation of stock and fixtures.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.**, can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BRETT & CO.

Licensed Valuers,

73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester." Telephone 1934.

F. J. BRETT, M.P.S.,

GIVES PERSONAL ATTENTION TO ALL VALUATIONS.

NO CHARGE TO BUYERS.

AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, but who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS to the Entire DRUG TRADE.

£1,300 returns.—KENT.—Good medium-class Light Retail, increasing; fine position; unopposed; nice house; net profit about £350; price £850.

£1,300 returns.—BIRMINGHAM.—Light Cash Retail, with Photo and some Optical; price £800, or goodwill £100 and valuation.

£900 returns (about).—GLOUCESTERSHIRE.—Good-class Light Country Retail, with very good residence, garden, etc., in desirable locality; price £500.

£1,300 returns.—YORKS.—High-class Retail in residential suburb of large town; good house, yard and garden; at valuation of stock and fixtures, about £900.

£1,400 returns.—LANCS.—Good-class Light Retail in popular seaside resort, with desirable house accommodation; plenty of scope for side-lines; price £900.

£1,100 returns.—CORNWALL.—Death Vacancy; good class Light Retail; fine chance for man of limited capital.

We have cash Buyers for businesses from £500 to £5,000.

Valuations conducted upon the shortest notice at moderate fees.

PARSON C. BAKER

1 MOUNTFIELD ROAD, CHURCH END, FINCHLEY, N.

Tel. No. Finchley 812.

Recommended by— BRITISH DRUG HOUSES, LTD. MEGGESON & CO., LTD. BARCLAY & SON, LTD.

All correspondence should be addressed as above.

And at 174 VICTORIA ST., S.W. Tel. No. Victoria 27.

IMMEDIATE Sale, less than value; recent death of proprietor; central position, St. Hellier's, Jersey; well-established but lately neglected Business; good shop, large house; rent £42; first reasonable offer.

VENDOR Retiring.—Prosperous Business in large town, S. Wales; net profit about £400; early purchaser can have it at less than valuation, say under £1,000, and part purchase can remain.

UNOPPOSED, in increasing town, North Kent; returning £600 under manager, showing good profits; rent £40; price £250, part can remain; managerial difficulties sole cause of sale.

COUNTY KIRKCUDBRIGHT.—Old-established Retail; neglected ill-health; £1,000, now £500; modern house; large shop; good position; rent £30; vendor owns; immediate sale discount allowed from valuation stock and fixtures.

VERY Pleasant Town, Devon Coast.—Annually increasing Business; now nearly £800, at good prices, without side-lines; large house; sea view; rent £60; price, value of stock and fixtures and very small goodwill.

THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS,

45a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.

Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

MESSRS. BERDOE & FISH

Chemists' Valuers and Transfer Agents,

35 JEWRY STREET, FENCHURCH STREET, CITY.

TELEPHONE: 1809 CENTRAL.

Have the following businesses for Disposal. (No charge to Purchasers.)

1.—CORNWALL (Death Vacancy).—Old-established Light Family Retail and Dispensing Business; returns between £1,000 and £1,100; double-fronted shop, in good position; same hands over 20 years; low price accepted for early sale.

2.—DEVON COAST. — Good-class Retail and Dispensing Business, increasing; returns nearly £800; good profits; large shop, modern fittings and good stock; price £500, little more than valuation.

3.—SURREY.—Unopposed Light Retail and Dispensing Business; 3,000 private scrips yearly; returns £620; net profit £200; modern house, attractive shop; price £430.

4.—KENT COAST.—Light Family Retail and Dispensing Business, in central position; established many years; returns average £750, last year £520; good premises, fully stocked; price £300 cash; strongly recommended.

5.—SURREY (Charming Locality).—Light Country Retail Business, returning over £400; net profit £160; large house and garden; net rent only £15, on lease; stock and fixtures worth £200; price £175.

6.—LONDON, N.W.—Sound middle-class Cash Retail Business; in good position; returns over £1,500; net profit nearly £500; books open to fullest investigation; own property; low rent; price £800.

7.—LONDON (Western Suburb).—Good-class Retail and Dispensing, with Photographic trade; returns £750; plenty of scope; well-fitted shop, good stock; price £300.

8.—BUCKS.—Good Light Retail, Dispensing and Prescribing Business, in pleasant market town; returns nearly £1,200; net profit £350; assistant kept; large house and garden; price £800.

9.—EASTERN COUNTY. — Good-class Retail and Dispensing Business, in most desirable town; returns £900, at good profits; low rent; handsome Pharmacy, fully stocked; price £700, about valuation.

10.—LANCS.—Cash Retail, Prescribing, with N.H.I.; returns over £900; net profit over £300; good main road position; low rent; convenient house; stock and fixtures worth £475; price only £350.

11.—DERBYSHIRE.—Unopposed Light Village Retail Business; returning £550; net profit £195; books properly kept; good house and shop; low rent; price for quick sale £250, about valuation.

12.—CHESHIRE.—Good-class Dispensing and Light Retail; over 3,500 private scrips yearly; returns £1,000; net profit £300; Assistant kept; good residential locality; nice house; price £750.

13.—LONDON (Essex Suburb).—Good ready-money Retail Business, under management; present returns about £1,000, besides £500 a year from N.H.I.; modern-fitted shop, excellent position; plenty of scope; price £600 cash.

14.—LONDON, S.W.—High-class Family Retail and Dispensing Business, in good residential locality; returns £1,300, increasing; good profits; handsomely fitted shop, well stocked; price £900 or offer.

BUSINESSES WANTED in all parts, town and country, from £300 to £3,000. Genuine cash buyers waiting.

STOCKTAKING VALUATIONS.

We, as the originators of stocktaking valuations, have for many years past continued to point out to chemists the importance of an annual stocktaking; and this year, more than ever, every Chemist in business should take stock. We as experts undertake this work at a very low fee, and without in any way upsetting the ordinary routine of your business.

Please read page 64 in "C. & D. Diary," and write for pamphlet and terms.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

ABERFAN and Nelson and Llancaiach, South Wales.—For Sale as a going concern, old-established first-class Retail and Dispensing Chemist and Druggist Business; returns at Aberfan £600 to £700, Nelson and Llancaiach about £250; N.H.I. Dispensing; only shops in villages. For permission to inspect apply Mr. H. Riley, 22 Park Row, Leeds, Incorporated Accountant, to whom offers can be made.

BARTON-ON-HUMBER, Lincolnshire.—Drug and Photographic Stores: Business for Sale as a going concern; suitable for a qualified Chemist; purchase price £100. For further particulars apply to Mr. Harold W. Locking, Chartered Accountant, Land of Green Ginger, Hull.

BRADFORD.—Old-established Light Retail Drug Business for Disposal at once; main thoroughfare, near Town Hall; reason, age; good opening for Panel. Particulars from "S. H.," 113 Bridge Street, Bradford.

CORNWALL (Death Vacancy).—Returning about £1,100; in good position; smart man can much increase; good class, with one exceptionally good Proprietary; stock and fixtures about £150, goodwill to be arranged. "Cornwall" (220/60), Office of this Paper.

CORNISH RIVIERA.—Owing to death of proprietor, an old-established Family and Dispensing Business for Disposal; fine double-fronted shop, beautifully fitted; excellent position in busy street; for energetic gentleman with a little capital and knowledge of Photography this affords an unusual opportunity; every investigation courted. Keen's Pharmacy, Penzance.

EAST LANCASHIRE.—Good-class Retail and Dispensing Business for Sale in Manufacturing town; shop splendidly situated in main thoroughfare; well stocked, modern fittings, electric light; convenient house, separate entrance; reasonable rent; splendid opportunity for energetic young man. Apply, 156/29, Office of this Paper.

LANCASHIRE.—In main thoroughfare of large manufacturing town; well-established Light Mixed Retail business, with Wine and Spirit Licence attached; in present hands 20 years; well fit up shop; present returns exceed £1,500, which can be greatly extended; stock and fixtures about £950; this can be reduced by half if desired; profit £398; reason for leaving, retirement; price, a fair valuation; a more genuine business has not been offered in this Journal; a splendid opening. Apply, 142/1, Office of this Paper.

LONDON.—Sound Cash Retail Business, with splendid Panel connection; turnover last year exceeds £1,850; well situated in busy market thoroughfare; splendid opening for Optics and Dentistry; convenient premises; held on long lease at moderate rental; lowest cash price £950; every investigation courted; only cash buyers entertained. Address, "Peps" (162/29), Office of this Paper.

LONDON, S.W.—Advertiser, wishing to devote full time at his West-End business, offers Suburban one for immediate Disposal; valuation of stock and fixtures £700; electric light; long lease; comfortable house; old-established, with several valuable Proprietaries. Interview arranged after application to "Celeritas" (156/34), Office of this Paper.

LONDON, S.W.—Unique opportunity for qualified business man; corner main road premises; splendidly fitted shop; lately closed, reason given; to be Sold; or would be Let, with use of fittings, at moderate inclusive rent; stock at valuation; fine chance for large Panel connection. Call, Wingfield, 35 Park Road, Merton, S.W.

LONDON, S.W.—Price £140; stock and fixtures worth the money; double-fronted, well-fitted shop in market terrace; showing £5 weekly profit under unqualified manager; could be considerably increased; comfortable house, six rooms, small garden, stabling (let off), side door; rent £40; lady Chemist would do well; special reason for selling. Only those prepared to do business please apply, Baker, 35 Waterford Road, Fulham, S.W.

LONDON, W.—Good class; opened by advertiser 16 years ago; over 10,000 new Prescriptions in books; returns been nearly £900; lately neglected through illness; genuine chance; £200 will be accepted for quick sale; owner ordered out. 160/12, Office of this Paper.

MIDDLESEX (About 9 Miles Out).—Main road; old-established Light Retail and Dispensing Business; splendidly fitted; returns about £700; lease; rent £45; convenient and roomy house with side entrance; price all at £475; bona-fide inquiries only answered; satisfactory reasons for sale. Apply, "Lavender" (160/23), Office of this Paper.

OXFORDSHIRE (Thriving Market Town). — Old-established Business in fine position; neglected by proprietor, who is retiring; good opportunity for energetic man; well-fitted modern shop; low rent; stock and fittings £60. W. H. Stephan, Chemist, Chipping Norton.

PORTLAND, Dorset.—Genuine sound Retail and Prescribing Business; well fitted and stocked; good profits; large trade with Fleet; owner, wishing to dispose promptly, will accept reasonable offer; rent moderate; house partly let off; good reasons for disposal. Willis, 128 Fortune's Well, Portland.

SOUTH-WEST.—For Sale as going concern, old-established Business of Chemist and Druggist in sound provincial town of 50,000; good-class trade; doing annually £1,100 cash and £200 credit sales; excellent situation; good fittings and well-equipped stock; splendid opening for energetic young man. Fullest particulars from A. J. Gardner, Chartered Accountant, 12 Baldwin Street, Bristol.

SURREY (Easy Distance of Town).—Light Retail that under only partial attention increased last year at the rate of £2 per week; nice shop, well fitted; no near opposition; fine opening for Photo and Optics; price £300, or near offer considered. "Surrey" (220/06), Office of this Paper.

SUSSEX (Seaside Health Resort).—Not a neglected Business, but a genuine old-established concern, in main thoroughfare, showing steady increase during past 12 years; returns £900; gross profit £550; price £700 cash, or near offer; good residence, private entrance. 154/38, Office of this Paper.

WEST-END Business for Sale; good old-fashioned trade; same hands 25 years. Apply, "A. T. C." (162/38), Office of this Paper.

YORK (Death Vacancy).—Old-established Business in main thoroughfare; been neglected through ill-health; returns about £500; scope for large increase; large shop and excellent premises; rent £30; good fixtures and useful stock; for quick sale £150 net. Further particulars from Bleasdale, Ltd., York.

BRANCH Business, situate on main road; rent £35; good living accommodation; has taken £6-£7 under bad management; capable increase; modern fittings; good window; Croydon district; £100 or offer. "R.," c/o Sangers, 289 Euston Road, London, N.W.

FOR Sale, Chemist's Business, York; very cheap to quick buyer; good opportunity for energetic young man. Apply, Wood, 14 Longfield Terrace, Bootham, York.

GENUINE small Cash Retail and Prescribing Business in country market town; in the hands of last two owners for 50 years; valid excuse for disposing; exceedingly well stocked; profits large; turnover about £500; price £400; rent £22 10s.; working expenses practically nil. Apply, "Bargain" (158/1), Office of this Paper.

NET profit certified by accountant as £380; can be had for £650; very good class Light Retail in small Sussex town; it rarely occurs that such an income can be secured for this price. "Sussex" (220/600), Office of this Paper.

TO Chemists.—First-class opening for Chemist with capital in good market town; excellent site; no goodwill. Apply, 208/20, Office of this Paper.

UNIQUE Opportunity.—Owing to ill-health, owner offers large Dispensing and Photo Business for Sale outright, or would exchange with cash adjustment for small country one anywhere; this business now doing over £1,500; shows unusual increase; capable of great extension; large house; long lease; well stocked. Reply, with references, confidentially, "Country" (163/06), Office of this Paper.

£165 or Near Offer.—Old-established Business, situated in best position, busy working-class shopping and passer-by thoroughfare, 1 mile from Bank, E.C.; under unqualified; unlimited scope for smart man, or qualified would largely increase; scope for Dentistry; well-fitted shop, modern stock, and commodious storerooms; nice house; urgent reasons for disposal at sacrifice price; exceptional opportunity. 163/13, Office of this Paper.

SALES BY AUCTION.

RE LLOYD'S, LTD., IN LIQUIDATION.

REMOVED FOR CONVENIENCE OF SALE.

MESSRS. FRYER, COOPER & CO. will Sell by Auction, at their Rooms, 3 Redeross Street, E.C., on Thursday, January 14, at one, the whole of the Stock and Fixtures from the above estate, comprising Drugs, Perfumes, 300 gross assorted high-class Toilet Soaps (Violet, Oatmeal, Rose, Cologne, Glycerine and Cucumber, etc.), and the usual Chemists' Stock; handsome Mahogany Fittings, Nests of Drawers, two Glass-fronted Counters, Dispensing Screens, Perfumery Cases, Personal Weighing Machines, Carboys, Scales, Shop-rounds, etc. On view day prior and morning of Sale. Catalogues of the Auctioneers.

MESSRS. FRYER, COOPER & CO. will also include in the above Sale the Sole Rights to the title of "Ovoleo," the registered trade-mark of a well-known Cod-liver Oil Emulsion, together with existing stock, cards, printed matter, showcards, the valuable recipe, goodwill, and trade-marks for four countries; the stock comprises about 80 gross to 100 gross of the three sizes known to the trade 1*s.* 1½*d.*, 2*s.* 6*d.*, and 4*s.* 6*d.*

FOR SALE.

FOR Sale, large stock (approximately 150 gross) bottles of Proprietary Tonic Tablets; excellent formula; good condition; attractive get up; taken in bankruptcy; first reasonable offer accepted. Box C D 42, E. J. Reid & Co., 17/18 Basinghall Street, London, E.C.

TWO National Cash Tills, second-hand; both total-adders; perfect; in use about two years. Write for details, Golding, 22 Ash Street, Old Kent Road, S.E.

TO LET.

CHEMIST.—House and Shop to Let; good opening; no Chemist in the neighbourhood; 38 St. Peter's Street, Islington; key No. 40; rent £40. Apply, A. Farrant, 13 Maryland Road, Wood Green, N.

EXCELLENT House and Shop to Let in growing district of Coventry; 4 bedrooms, etc.; splendid opening for Chemist, badly needed in district; moderate rental. Full particulars of Frank Mason, Auctioneer, Coventry.

BUSINESSES WANTED.

BUSINESS wanted in South of England; net profit must not be less than £150. Bennett, 3 Barbourne Road, Worcester.

PHARMACIST desires to purchase sound Business open to every investigation and showing net profit not less than £220, with scope for increase; Coast preferred, but pleasant surroundings with river also suitable; large garden attached to business forms an inducement; cash ready in lump sum. Particulars, in confidence, to "Occelatus" (158/28), Office of this Paper.

PHARMACIST is prepared to purchase for choice a good-class Dispensing business, returning £1,200 to £1,500, or more if part payment entertained, and showing a net profit of not less than £300; full particulars in first instance of the business and house, all in strict confidence; Midlands or near preferred; cash ready. Apply, "Sheffielder" (159/22), Office of this Paper.

PARTNERSHIPS.

ACTIVE Director required who will invest £500 to £1,000 and control selling and commercial side of established and progressive business in London manufacturing Chemists' Sundries; a young energetic man wanted, who can look for minimum return of £250 to £350 per annum. Particulars from Messrs. Arnold & Co., 76 Cannon Street, E.C.

ACTIVE Partner or Director required who will invest £5,000 working capital (gradually), take half-share, and look after commercial side of a progressive business, London, manufacturing Surgical Appliances and Invalid Furniture; turnover exceeds £15,000 per annum; can expect minimum return of £800 to £1,000 per annum; audited accounts. Particulars from Messrs. Arnold & Co., 76 Cannon Street, London, E.C.

AGENCIES.

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EGYPT being now a British Protectorate, a new field is opened up for British-made Chemicals and Pharmaceuticals; advertiser, who is a qualified Chemist, with sound connections among Doctors, Chemists, and Wholesale Dealers, is open to take up the Representation for Egypt of good-class British Manufacturers; good London references. Address, K. Badr, 213 Brixton Road, S.W.

RUSSIA.—Advertiser desires to Represent British firms making or dealing in Chemical and Pharmaceutical products; good connection with large buyers; highest references. R. Crottet, P.O. Box 277, Petrograd.

WHOLESALE Optician, manufacturing in Great Britain a well-known Eyeglass, is in a position to grant a Travelling Agency as an additional line to foreign Representative in the Far East, South America, or other parts. Apply, in confidence, to 220/33, Office of this Paper.

APPRENTICESHIPS.

APPRENTICE (outdoors) required for Belvedere Pharmacy (about 10 miles from London Bridge); must be tall, of good appearance, and well educated; every facility for acquiring all-round experience in a modern Light Retail, Prescribing, and Dispensing business; small progressive salary. Apply Walter Reeson, M.P.S., Dispensing Chemist, 80 High Street, Erith, Kent.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

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RETAIL.

ABERDEEN.—Assistant required. State age, height, salary, when disengaged, give full particulars of experience, Hunter, Chemist, 111 Union Street.

BIRMINGHAM District.—For middle of February, qualified Assistant; accustomed to management; must be quick and accurate Dispenser, N.H.I. Send full particulars, salary expected, etc., 159/32, Office of this Paper.

BOURNEMOUTH.—Charles D. Cumber, Dispensing Chemist, Winton, Bournemouth, requires a gentlemanly Junior Assistant. State age, experience, and salary required (indoors), enclose photo (which will be returned), give references, and state when disengaged.

BRIGHTON.—Outdoors; an Assistant, mainly for Dispensing, with some good Counter experience; applicants (letters only) are asked to give full particulars as to where experience has been gained, age, height, salary required, and to enclose photo; no ladies' applications entertained. J. Colby & Co., 101 Western Road, Brighton.

BRIGHTON.—Qualified Assistant for high-class Retail and Dispensing business; comfortable home. State usual particulars and enclose photo if convenient, S. J. Weston & Co., Church Road, Hove.

BRISTOL.—Young qualified Assistant wanted; Dispensing (good class); easy position; comfortable home; very little N.H.I. work. References and salary asked to Edward Maish, Cotham Brow, Bristol.

CARDIFF.—Dispensing Assistant required. Apply, stating age, height, experience, and salary required (outdoors), with photo, Duck & Son, Chemists, Cardiff.

CHELMSFORD.—A young unqualified Junior or Improver wanted at once for good-class country business; outdoors; two other Assistants kept; no National Insurance Dispensing, and no Sunday duty. Please give full particulars and salary required, with references, E. Bunn, Chemist, The Central Pharmacy, Chelmsford.

CITY and West End.—Wanted, smart and capable Salesman, with high-class business experience; also a quick and reliable Assistant for control of stock and manufacture of Galenicals and Proprietaries; only competent men with satisfactory references need apply; outdoors; permanency; progressive salary and commission. Cofman's, 6 Bloomsbury Street, W.C.

CROYDON (South).—Junior required immediately; age about 21; knowledge of Photography. State salary required, references, also enclose photo, S. A. Noble, Selsdon Road.

DEAL.—Assistant for good-class Light Retail and Dispensing business; outdoors; knowledge of Photography and French preferred; easy hours and light Sunday duty; sound references essential. Full particulars of experience and salary required, E. J. Dobson, Victoria Pharmacy, Deal.

ERITH-ON-THAMES.—Qualified Assistant required at once (outdoors) for modern Light Retail, Prescribing, and Dispensing business in manufacturing district 12 miles from London Bridge; others kept; hours—Monday, Tuesday, and Wednesday 8.30 to 9, Thursday 1, Friday 10, Saturday 10.45; occasional Sunday duty; one hour for dinner and one hour for tea. Applicants are requested to give full particulars as to age, height, experience, etc., enclosing photo if possible (to be returned), Walter Reeson, 80 High Street, Erith, Kent.

GRIMSBY.—Junior or Improver, or Belgian Pharmacist not objected to; hours 8.30 to 8, Saturdays 10.30; half-holiday weekly; outdoors. Please state full particulars in first letter to 162/11, Office of this Paper.

KENSINGTON, W.—Wanted immediately, unqualified Assistant; outdoors; age 26 to 33; salary £2 7*s.* 6*d.* per week; must be quick and accurate, and have had excellent Dispensing experience, and a good Counterman. State height and give details of last three situations to "Statim" (159/3), Office of this Paper.

KINGSTON-ON-THAMES.—Junior Assistant wanted (outdoors) for good-class business; easy hours; no Sunday or Bank Holiday duty; close 1 o'clock Wednesdays. State age, height, experience, when disengaged, and salary expected to Plomley, Chemist, 51 Fife Road.

LONDON.—Qualified Assistant required for a good business; comfortable permanency to a steady and reliable man. 144/301, Office of this Paper.

LONDON, E.C.—Outdoors; Junior as Stockkeeper and to assist with Dispensing, etc.; easy hours; no Sunday duty. Give full particulars of experience and salary required, 157/33, Office of this Paper.

LONDON, N.—An Assistant, with a good knowledge of Counter and Dispensing, wanted at once. Please state age, references, salary, and experience in first letter, or apply personally, Bishop & Vincent, 460 Holloway Road, London, N.

LONDON, N.—Wanted, a thoroughly competent Assistant, from 25 to 30 years of age; accustomed to high-class Retail and Dispensing; in- or out-doors; easy hours. Apply, T. E. Savage, Pharmacist, Crouch End, N.

LONDON, N.W.—Wanted immediately, unqualified, experienced Assistant; about 22 years of age. Apply personally, or if letter give full particulars and salary required, to W. H. Hill & Co., 96 Albany Street, Regent's Park, N.W.

LONDON, N.W.—Wanted, a capable and gentlemanly Assistant; one accustomed to high-class Retail and Dispensing business. Apply, with full particulars and salary required, enclosing photo if possible (or personal interview if convenient), to W. J. Dalby, Caufield Gardens, Hampstead, N.W.

LONDON, S.E.—Wanted as soon as possible, a Junior Assistant, about 23; N.H.I. Dispensing; quick cash trade. Full particulars and salary (outdoors), Sayers, Pharmacist, 81 High Street, Peckham.

LONDON, S.W.—Junior wanted at once for good-class Dispensing and Retail business; outdoors. Apply, stating all usual particulars, to Feltwell & Son, Chemists, Barnes, London, S.W.

LONDON, S.W.—Junior Assistant wanted for good-class Cash business; outdoors; hours 8.30 to 8.30; half-day weekly; Sunday or Holiday duty. Apply, with full particulars, to S. Durbin, 19 Victoria Road, Surbiton.

LONDON, S.W.—Junior Assistant, willing to be useful. T. Lowe & Co., Surbiton.

LONDON, W.—An experienced Assistant for front counter; unqualified; outdoors; short hours. Apply, E. C. Evans, Chemist, Whiteley, Ltd., Westbourne Grove, W.

LONDON, W.—Assistant, about 25, for good-class Retail and Dispensing business; outdoors. State age, height, salary, enclose photo if possible, particulars of last two engagements, W. A. Weston, 8 Sandringham Parade, Ealing.

LONDON, W.—Wanted at once, a competent Assistant; must be a good Dispenser and generally well up in the business. Whitmore Baker, 239 Elgin Avenue, Maida Vale, W.

LONDON, W.—A smart Junior, speaking French, qualified, required shortly; must have had good experience and be well recommended; age 25 to 30, about. Heppell & Co., 164 Piccadilly, W.

LONDON, W.—Required immediately, Junior with good previous experience. Applications should contain particulars of previous engagements, age, height, salary required (outdoors), and when disengaged, photo if possible, Sharpe & Son, 34 High Street, Notting Hill Gate, W.

LYNDHURST.—Immediately; Junior, permanent or Locum, for Dispensing and Light Retail; outdoors; time for study if desired. Full particulars first letter, age, references, salary, etc., Willis, Lyndhurst.

MANCHESTER.—Unqualified man required to take charge of Chemist's business situate in working-class district; must be a capable Dispenser, Counterman, and Window-dresser. 144/031, Office of this Paper.

MANCHESTER.—Qualified Manager required for business in a decent working-class district; proprietor is prepared to offer liberal salary and commission terms to an energetic and reliable man who will settle down. 144/31, Office of this Paper.

MANCHESTER District.—Qualified Assistant wanted; salary £3 per week and commission; must be quick and reliable and a good Salesman. State age, height, experience, references, and photo, 160/14, Office of this Paper.

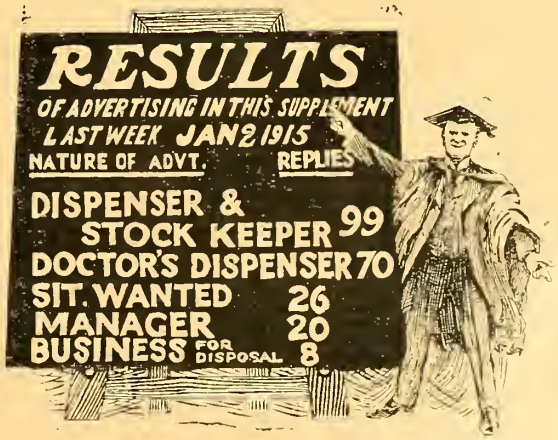
MIDLANDS, near Birmingham.—Elderly qualified Chemist required immediately, mainly for N.H.I. Dispensing; very comfortable berth. State age and salary required, 144/310, Office of this Paper.

NORTH YORKS.—Wanted, qualified Assistant for good-class Retail and Dispensing country business; age about 35; must be steady and reliable; preference given to one who is married and able to Extract. Apply, Bellamy, Bedale.

OXFORD.—Required at once, Assistant; qualified; outdoors. State salary and full particulars, A. J. Pumfrey, 14 St. Aldate's, Oxford.

PORTSMOUTH INSURANCE COMMITTEE.—The Committee require the services of an expert Clerk, capable of checking Doctors' prescriptions and Chemists' accounts under the National Insurance Acts, and of investigating and analysing same, and reporting thereon as directed; salary £120 per annum. Applications, under cover, endorsed "Checker," stating age and qualifications, with copies of not more than three testimonials, to reach the undersigned not later than Thursday, 21st January, 1915. Henry C. Sawyer, Clerk to the Committee, Town Hall, Portsmouth.

SEVERALLS ASYLUM, Colchester.—Wanted, a qualified Dispenser, male or female, temporarily; applications from those eligible for service with the Forces will not be considered; salary £2 2*s.* per week, with dinner and tea on working days. For form of application apply, enclosing stamped addressed envelope, to the Medical Superintendent.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

SOUTHEND.—Junior Assistant at once; indoors; good Dispenser. All particulars, with photo, to C. Goode, Holloway Pharmacy.

SOUTHPORT.—Wanted, Junior Assistant; good-class Retail and Dispensing; outdoors. Full particulars, age, height, experience, salary required, photo, J. Righton, 515 Lord Street, Southport.

TORQUAY.—Junior Assistant, unqualified, indoors, for good-class Retail and Dispensing business. Apply, stating age, experience, references, and salary required, to J. Newlyn, Wellswood Pharmacy, Torquay.

WIMBLEDON, S.W.—About February 1st, gentlemanly Junior for good-class Dispensing and Light Retail business; no N.H.I.; hours 8 to 8; indoors; one who has served apprenticeship with Sight-testing Chemist-Optician preferred. Blanchford, 76 High Street, Wimbledon.

ABOUT the end of January.—Assistant, about 22, with good Dispensing and General experience; outdoors; short hours. Apply, R. C. Harrison, Pharmacist, Grayshott, Hindhead, Surrey.

ASSISTANT, Junior preferred (preference to one able to start at once), for good-class Light Retail and Dispensing business. Full particulars, references, and state salary required (indoors or out), A. G. Reid, Petersfield, Hants.

ASSISTANT wanted, about 24; qualified or unqualified; must be reliable Dispenser and smart Counterman. Personal interview if possible, or full particulars of experience, references, etc., to H. Southall, 310 Hoe Street, Walthamstow, London.

ASSISTANT required; experienced; accustomed to good-class business. Please state fully all usual particulars, Darling & Roberts, 81 Stoke Road, Gosport, near Portsmouth.

ASSISTANT, competent to take entire charge of Dispensary, with first-class work, and occasionally assist in shop if necessary; hours 1 p.m. to 4 p.m., 5 p.m. to 10 p.m. daily, except Wednesdays; alternate Sundays 6 p.m. to 10 p.m.; outdoors. Please give full particulars, age, salary, etc., to E. Prebble, 187 Kensington, Liverpool.

ASSISTANT wanted, with energy and ability; not eligible for Military service; permanency and good salary. Apply, Messrs. Timothy White Co., Ltd., Chemists, Portsmouth.

ASSISTANT required; indoors; experienced in good-class Family and Dispensing business; moderate hours. Reply, with full particulars and salary required, to Rouse, Chemist, Swanage, Dorset.

ASSISTANT (unqualified) or Junior; smart Salesman and well up in the routine of a good-class business. Apply, with references, to Fairburn, Chemist, Northallerton.

ASSISTANT (evenings only), for N.H.I. Dispensing more especially. Send particulars or apply, 60 High Street, Stoke Newington.

ASSISTANT, aged about 24 (or good Junior), with Dispensing experience. Apply, with full particulars as to age, height, salary, etc., to W. E. Hickin, Pharmacist, 57 Grange Road West, Birkenhead.

ASSISTANT, about 22 years of age, well up in Dispensing, for a good-class business. State age, height, salary required, when disengaged, names two last employers, and time with each, 160/10, Office of this Paper.

AT Once.—Assistant; outdoors; easy hours; no Sunday work; liberal wages to capable Dispenser and Window-dresser; lady Dispenser with Retail experience would be entertained. Dix, Chemist, Pontypool.

AT Once.—Junior or smart Improver; send usual particulars, with salary required; no Sunday duty; Wednesday half-day off; outdoors. Arthur Stedman, Snodland, near Rochester, Kent.

CHEMISTS.—Smart young qualified men, accustomed to quick Cash trade, required for branches in the North of England. Please state salary required, references, experience, and when disengaged, "Chemist," Taylors' Drug Co., Ltd., P.O. Box 141, Leeds.

DISPENSER for Public Institution. Apply in first instance, Mawson & Proctor, Ltd., Newcastle.

DISPENSER; fully qualified; salary £3 per week and house. Further particulars as to hours and duties apply Jno. J. Humphreys, Secretary, Friendly Societies' Medical Association, 67 Sherwood Street, Wolverhampton.

EVENINGS.—Assistant (under 30) required Tuesday, Wednesday, and Thursday evenings, from about 6.30; N.H.I. Dispensing and Counter; not far from London Bridge; 1s. per hour. 162/36, Office of this Paper.

GOOD Dispenser required. Please state full particulars as to experience, etc., Lewis & Burrows, Ltd., 146 Holborn Bars, E.C.

GOOD and quick Dispenser, chiefly for Doctor's Surgery. Bailey, Chemist, Boston.

H. MONKHOUSE, Chemist, Derby, requires a Junior Assistant, age not under 21, for high-class business; no N.H.I. Dispensing. Please send full particulars and state salary required (indoors and outdoors).

IMPROVER wanted at once; one just completed apprenticeship would suit. Full particulars and photo in first letter, Lester & Williamson, Chemists, Foleshill Road, Coventry.

JUNIOR Assistant (outdoors) for good-class Retail, Dispensing, and Photographic; good opportunity. State age, height, experience, when disengaged, and salary expected to Matthews, Chemist, 146 Hoppers Road, Winchmore Hill, N.

JUNIOR Assistant for high-class Dispensing business, where two other Assistants kept. Please state usual particulars and salary required (indoors) to Read & Orchard, Chemists, Salisbury.

JUNIOR or Improver; Dispensing, Photo, and General Seaside Retail. Particulars to C. H. Thomas, Holman, Ham & Co., Ltd., Exmouth.

JUNIOR Assistant wanted in good-class, old-established country business. Please send particulars of experience and salary required (outdoors), Randall & Son, Chemists, Wareham, Dorset.

JUNIOR Assistant; good-class Dispensing experience; knowledge of Photography an advantage; state full particulars, age, salary, etc. Apply, "Manager," Holman, Ham & Co., Sidmouth.

JUNIOR Assistant wanted; Drug Department, Photography; no Dispensing; moderate hours; no Sunday duty. State salary required (outdoors), Burgis & Colebourne, Ltd., Leamington.

JUNIOR, age about 21; used to Dispensing and Photography; outdoors; time for study if desired. Deverenx, Chemist, Wood Street, Walthamstow.

JUNIOR Assistant wanted for branch; no Sunday duty. Apply, Lands, Chemists, Coalville, Leicester.

JUNIOR Assistant (outdoors), age about 20, in a good-class Retail and Dispensing business; easy hours and no Sunday duty. Please give usual particulars, with references, to H. E. Herington, Pharmacist, Leighton Buzzard.

JUNIOR Assistant, 20 to 22, for Dispensing; indoors or outdoors; pretty, healthy country town. J. H. Hart, Ph.C., Ross, Herefordshire.

JUNIOR Assistant required for quick Counter trade and Window-dressing; large Midland town. Write usual particulars to 159/36, Office of this Paper.

JUNIOR Assistant in a Retail and Dispensing business. Please state particulars and when at liberty, Fawcett, Pharmacist, Bebington, near Birkenhead.

JUNIOR or Improver for Dispensing business. Wing, 8 Boulevard, Weston-super-Mare.

MIDDLE of January.—A capable Assistant; indoors; abstainer preferred; no Sunday duty. Apply or write, stating age, salary required, etc., to W. Wilson, Pharmacist, 80 Lamb's Conduit Street, High Holborn, W.C.

QUALIFIED Assistant required at once for City business; must be a really competent Dispenser and good Salesman; short hours; comfortable berth to the right man. Full particulars, salary required, etc., in first letter, enclosing photo (to be returned), Plews, Chemist, 41 Moorgate Street, E.C.

QUALIFIED Assistant required for country business; indoors; must be pushing, good Counterman and Window-dresser, with some knowledge of Photography and Agriculture; salary to commence at £90 and commission. Apply, with usual particulars, photo, or personal interview, to H. Lawrence, Chemist, Kenley, Surrey.

QUALIFIED: 28-30; indoors; very comfortable home; applicants must be accustomed to good-class Retail, and capable of taking charge; no Sunday, Bank Holiday, or other duty. Please state experience, J. E. Hyde, Pharmacist, Bush Hill Park, Enfield.

QUALIFIED Manager for Branch in Colliery district, early in January; abstainer; permanency. Age, experience, and salary required to D. George, Chemist, Pentre, Glam.

QUALIFIED Assistant for Counter in high-class Yorkshire business; must be smart, energetic, and of good address. Apply, stating age, experience, salary required (outdoors), and enclose photo, to "Veritas" (157/39), Office of this Paper.

QUALIFIED man required immediately, about 50; quick and good Salesman; easy hours. State salary required, Tottle, Chemist, Epsom.

QUALIFIED Assistant, with good Dispensing experience, required at once. Apply, Courtenay, 2 Queen's Terrace. St. John's Wood, N.W.

QUALIFIED Dispenser (male), with good-class West-End experience, required at once; short hours. Apply to Staff Superintendent, Harrods, Ltd., 44 Hans Crescent, S.W.

QUALIFIED gentlemanly Assistant, well up in Dispensing and Family Retail; indoors; two others kept. Apply, stating when disengaged, salary, photo, and references, Stonham & Son, Maidstone.

REQUIRED at once, gentlemanly unqualified Assistant for high-class Dispensing business. Apply, Quibell, 10 Golder's Green Parade, London, N.W.

SAVORY & MOORE, New Bond Street, require immediately a temporary Assistant; must be qualified and an accurate Dispenser. Apply by letter, with full particulars as to age, experience, and salary required, to Manager.

SMART Junior required; outdoors; Welsh preferred, but not essential. Apply, stating usual particulars and photo, to J. L. Hopkins, Chemist, Pontycymmer.

UNQUALIFIED young Assistant wanted for Light Retail business, with some N.H.I. Dispensing; outdoors; near City; permanency; hours—four days 8.30 to 9.30, with three hours off for meals; Wednesdays 8.30 to 1.30; Thursdays 10.30 to 10; alternate Sundays 6 to 10. Give full particulars, with salary required, by letter, to "Pharmaceutical Chemist," 20 Norton Folgate, London, N.E.

UNQUALIFIED Assistant or Junior wanted in good-class Retail and Dispensing business. Apply, stating full particulars, to Gregory & Wrenn, Chemists, Taunton.

UNQUALIFIED Assistant wanted; one who has served a good apprenticeship and accustomed to N.H.I. Dispensing; good and capable Window-dresser; age about 24 years; of good appearance; vacancy to be filled at once. Apply, with usual references, stating experience gained, to Olayloids, 730 Old Kent Road, London, S.E.

UP-TO-DATE Manager required for London West-End business; outdoors. Apply, with full particulars, enclosing photograph, to 156/23, Office of this Paper.

WANTED immediately, a Junior Assistant for good-class Retail and Dispensing business. Apply to Thos. Evans, Pharmacist, East Putney, S.W.

WANTED at once, good all-round Assistant for good-class business; state salary (outdoors) and reference, height, age, and usual particulars; easy hours; no Sunday; half-day weekly. Woodhouse & Son, Bull Ring, Ludlow, Salop.

WANTED at once, a good all-round Assistant; one used to Counter and Dispensing and having served his full time as apprentice; no Doctor's Dispensers need apply; must be sober in his habits. Please state age and salary required, A. L. Bratley, Pharmacist, Pontefract.

WANTED, a reliable unqualified Assistant for a good-class country Retail; outdoors; must have good references. Apply, giving usual particulars and photo if possible, to Benjamin, Chemist, Ross-on-Wye.

WANTED, early in January, a Junior Assistant in a good-class business; short hours, with time for study if desired; indoors. Downing, Chemist, Launceston, Cornwall.

WANTED, Assistants outdoors; Retail and Dispensing. Please state age, references, salary, etc., J. J. Thomas & Son, Chemists, Yorkshire Street, Rochdale.

WANTED, Junior or Improver for high-class Retail and Dispensing. Apply, stating full particulars, references, salary, etc., F. Blackmore, 17 High Street, Weston-super-Mare.

WANTED, a competent Assistant; accustomed to good-class Retail and Dispensing; permanency. Apply, stating age, experience, height, and salary required (outdoors), Cousins, Thomas & Sons, Chemists, Magdalen Street, Oxford.

WANTED at once, Junior Assistant for old-established country business; outdoors. Apply, with full particulars, to Gostling & Co., Chemists, Diss, Norfolk.

WANTED immediately, a smart unqualified Junior for good-class business near London; must be a good all-round man and possess a competent knowledge of the Photographic trade; progressive salary to the right man; also a young man used to modern Window-dressing and capable of putting-up stock. State fullest particulars in first letter, "Outspan" (160/24), Office of this Paper.

WANTED, one qualified and one unqualified Assistant; indoors. Apply, with full particulars, to A. Milne, Montpellier, Cheltenham.

WANTED immediately, a gentlemanly Improver. Apply, with references and salary required (outdoors), Wyatt, 31 Tavistock Street, Bedford.

WANTED, an unqualified Assistant for Light Retail and N.H.I. Dispensing; must be quick and accurate, with good Dispensing experience; outdoors; hours 8.30 to 9.30; day off weekly; every other Sunday evening duty. Usual particulars, etc., Davies, Pharmacist, 344 Caledonian Road, King's Cross, N.

WANTED immediately, unqualified Assistant in high-class Family Retail and Dispensing business; no heavy trade; reasonable hours; knowledge of Photography essential. Apply, stating salary required, to "A. E. S." (220/50), Office of this Paper.

WANTED at once, Junior Assistant; used to Dispensing, Light Retail. Apply, stating age, height, references, wages required (outdoors), Page, Wilton, Salisbury.

WANTED as soon as possible, smart Junior or Improver (indoors) for Dispensing business; one with knowledge of Photography preferred. Reply, stating age, height, salary required, enclose photo (which will be returned), Finlay, Chemist, Reading.

WHOLESALE.

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IRELAND.—Wanted, a young and energetic man to make Galenicals, Tinctures, and Proprietary Preparations. State age, experience, and salary expected, 218/49, Office of this Paper.

LONDON, S.W.—Assistant wanted, with a good knowledge of Proprietary Articles, Patent Medicine, and Druggists' Sundries; one accustomed to putting up orders preferred; age about 25 years. Apply, giving full particulars, experience, and salary, to "Druggist," 1162, Sell's Advertising Offices, Fleet Street, E.C.

A JUNIOR wanted for Laboratory in City Warehouse. State age, experience, and salary required, 154/35, Office of this Paper.

ANALYST.—Senior Assistant wanted for Analytical Laboratory of Provincial Wholesale house; Pharmaceutical experience essential. Apply, with full details of age, qualification, salary required, etc., to 220/54, Office of this Paper.

ASSISTANT wanted for Wet Counter by City firm of Manufacturing Chemists; must have had similar experience. Apply, giving full particulars, with salary required, to 162/35, Office of this Paper.

COUNTER hands wanted in London house with experience of either Wets or Drys; liberal and progressive wages. Apply, stating full particulars of experience and age, to 162/027, Office of this Paper.

FLY-CATCHERS.—London firm of world-wide repute require first-class man, thoroughly understanding in all detail the preparation of suitable Fly-gum and the manufacture of Boxed Fly-catchers, and capable of taking charge of London factory and workpeople; only keen, intelligent men need apply. Write, stating age, experience, salary required, and full particulars (which will be treated in strict confidence), to "Fly-catcher," c/o Harvey Bros.' Advertising Agency, 171 Queen Victoria Street, London, E.C.

LABORATORY.—Experienced Assistants wanted for Tincture Department, also for making Ointments, Syrups, and Chemical Liquors, in London house; liberal and progressive wages. Apply, stating full particulars of experience and age, to 162/27, Office of this Paper.

TABLET-MAKER.—A leading Wholesale house has vacancy for an experienced hand; must have knowledge of all branches of the work and be able to take control. Apply, "Tablets" (220/47), Office of this Paper.

THERE are several Junior vacancies in a firm of leading Manufacturing Chemists for young Pharmacists with the Minor qualification; recently qualified men would find ample scope for training for more responsible positions. Apply, enclosing photograph (to be returned), stating salary required, to 221/71, Office of this Paper.

TINCTURES.—London firm of Wholesale Druggists have a vacancy for a Junior Assistant in above department. Apply, giving particulars and stating wages required, to 221/63, Office of this Paper.

TO Unqualified Assistants seeking Wholesale Experience.—Several men required for Wet and Dry Counters. Write, stating experience and wages required, to "W. T.," c/o Gains & Co., 19 Moorfields, E.C.

WANTED, smart Invoice Clerk; one with knowledge of Surgeons' trade preferable. Apply, stating age, salary required, experience, and recent reference, to W. A. Wharram, Ltd., 115 Vicar Lane, Leeds.

WANTED, gentleman, age about 25 years, experienced in Buying, Drugs, Chemicals, Instruments, and Sundries, for Export Merchant's office; one with knowledge of shipping preferred, and capable of handling correspondence. Apply by letter, stating experience and salary desired, to 217/38, Office of this Paper.

WANTED at once, Assistant for Granulating work in Tablet Department of large Manufacturing Co., London district. State experience and salary expected, 221/62, Office of this Paper.

WET and Dry Counter hands wanted at once for London Wholesale house. Reply, 216/63, Office of this Paper.

WET Counter hands wanted at once. Apply to Bargoyne Burbidges & Co., East Ham.

WET and Dry Floors.—Two experienced hands wanted immediately in large East-End Warehouse. State age, wages required, and experience to 162/28, Office of this Paper.

WHOLESALE Druggists' Sundries Department, Provincial House.—Smart Assistant as second hand; state age, experience, and salary required. Apply, 216/70, Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.] RETAIL.

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A THOROUGHLY up-to-date Counterman and Prescriber requires engagement; well accustomed to management; highest references; unqualified; Locum considered. "H.," 11 City Road, E.C.

ASSISTANT; middle-aged; Manage branch or otherwise. "Marcus," c/o Miss Burn, Bryncethin, Bridgend.

ASSISTANT; 32; capable, energetic; Dispensing, Counter, and Window-dressing; outdoors; London or Suburbs; early in February. "Radix," 35 Franconia Road, Clapham, S.W.

ASSISTANT (25), unqualified, desires berth in London; N.H.I. Dispensing and Counter; disengaged. "Statim," 29 Keswick Road, Blackpool.

ASSISTANT, Manager; varied experience; disengaged; good references; unregistered. "Chemicus," 12 Pentonville, Newport, Mon.

ASSISTANT, unqualified, 31, seeks good permanency or Locum work with Doctor or Chemist; in or about Manchester preferred; thoroughly experienced and reliable; good Counterman and Prescriber. "Rhei," 16 Stamford Road, Longsight, Manchester.

ASSISTANT; 25; unqualified; tall; Dispensing, Counter, etc.; first-class references. Apply, 159/13, Office of this Paper.

ASSISTANT; 23; tall; 9 years' good all-round experience; disengaged February; North-East London preferred; outdoors. "W. M. W." (160/25), Office of this Paper.

ASSISTANT; 35; good-class Dispensing and Counter experience; permanency desired. 159/39, Office of this Paper.

ASSISTANT (23), with Dutch diploma in Pharmacy, desires situation in English Pharmacy or Wholesale house; good general knowledge of the trade; first-class experience and references. E. Baars, Esq., 29 St. Julians Road, Kilburn.

ASSISTANT; disengaged; used to good-class Counter trade, Dispensing (including N.H.I.), and Photography; first-prize Window-dresser. Shiels, 17 Russell Road, Leyton.

ASSISTANT; unqualified; tall; age 30; well recommended by present employer; best service offered. Apply, "Worker," 1 Church Place, Piccadilly, W.

ASSISTANT; 5 ft. 10 in.; unqualified; outdoors; 32; West-end and Suburban experience; capable Manager; Counter, Photo, etc.; excellent references; disengaged shortly. "Salol," 39 Medova Road, Elm Park, S.W.

ASSISTANT, unqualified, 27, tall, good appearance, thoroughly experienced, highly recommended, married, desires permanency; London or South preferred; disengaged; good salary required. 163/5, Office of this Paper.

BRANCH Manager or Assistant; London only; unqualified; single; abstainer; 42; 5 ft. 10 in.; good references; disengaged; all-round experience. "Hodie," 10 Alfearn Road, Clapton, London.

COMPETENT unqualified Assistant, 26, tall, requires berth in or near Sheffield; Dispensing, Counter, Photography; would have to give month's notice present situation. 154/7, Office of this Paper.

DISENGAGED shortly; unqualified; 40; experienced Prescriber and Extractor; good references. "Aspirin," c/o Hall, Temple Fortune Arcade, Golder's Green, N.W.

DISPENSER, thoroughly experienced, male, Bookkeeper, desires post with Doctor; excellent references. 156/28, Office of this Paper.

DISPENSER; qualified; Hospital, Doctor's, Dispensary.—Irving, 66 Rowfant Road, Balham, S.W.

EVENING work (Student, experienced) from about January 6. Freakley, 60 Cavendish Road, Clapham.

EVENINGS; West End or any district; or Doctor; all classes; resident North. 156/30, Office of this Paper.

EVENINGS (four or five) from 6.30; London, W.; competent and reliable Assistant; 33. "Radix" (163/2), Office of this Paper.

EXPERIENCED Minor man; 42; single; light permanent work; wages in proportion. "Business" (160/016), Office of this Paper.

FOLKESTONE or Near.—Chemists requiring the services of an elderly qualified man should apply for interview to "Manager," 37 High Street, Sandgate.

IMPROVER; Hall certificate; disengaged; Part-time; good references; available 10 till 6. 144/21, Office of this Paper.

IMPROVER; 24; 5 ft. 11 in.; 4½ years' experience; disengaged; South Wales preferred. 156/26, Office of this Paper.

JUNIOR; 20; good Dispenser and Counter hand; time essential for evening science classes. Heathfield, 6 Ellesmere Avenue, Lincoln.

JUNIOR Assistant, age 23, height 5 ft. 8 in., good experience and reference, requires berth in Midlands. Address, "P. M.," 20 Summer Street, Willenhall, Staffs.

JUNIOR; 9 years' experience N.H.I. Dispensing and Pricing; London. "Rhei," 8 Cavendish Road, Croydon.

JUNIOR; nearly 20; 3 years' experience Dispensing and Counter; little time off for study preferred. Particulars to Thomas, Ivy Cottage, Llansaint, Kidwelly.

LADY Dispenser (Hall qualification), 1 year's practical experience, requires post with Doctor. "Miss P.," 394b Uxbridge Road, London, W.

LADY Dispenser, experienced, desires re-engagement; temporary or permanent; Doctor or Institution; Bookkeeping; good testimonials; disengaged. Miss Cousens, 74 Malvern Road, Thornton Heath.

LOCUM; not registered; experienced Prescriber, etc.; excellent references; abstainer; 49; single. "Energetic," 19 Chapel Street, Uxbridge.

LOCUM or Part-time; daily or weekly. "Qualified," 116 Galloway Road, Shepherd's Bush, W.

LOCUM or Relief, age 40, living in South Dorset, wishes to book engagements from Easter; West, South-West, and South of England. "Locum" (160/2), Office of this Paper.

LOCUM or permanent; 39; tall; unqualified; Photography. Howes, 15 Hexthorpe Road, Doncaster.

LONDON.—Experienced Assistant, 39, married, speaking fluent French, seeks post as Senior; Continental and London experience; good references. 158/14, Office of this Paper.

MAJOR Student; London; mornings or evenings; London experience. Anthony, Chemist, Abercynon, Glam.

MANAGER or Locum; qualified; 44; all-round experience. "Aspirin," 2 Chapel Street, Tavistock.

MANAGER: married; 32; disengaged; Optio and Photo experience; good references. "Pharmacist," 6 Stafford Road, Bloxwich, Walsall.

MANAGER; qualified; married; middle-aged; 5 ft. 11 in.; good all-round experience; abstainer; permanency; disengaged; London or district. "Pharmacist," 21 Minster Road, Cricklewood, N.W.

MANAGER; Major; very successful own business, out of few years; married. "Pharmacist," 21 Vaughan Avenue, Hammersmith, W.

MANAGER; London or country; qualified; active and obliging. "A.," 86 Battersea Rise, S.W.

MANAGERSHIP required; to live on premises; 37; qualified; experienced; married; house must contain bath, etc.; Lancashire preferred. State full particulars and salary, 160/21, Office of this Paper.

MINOR qualification; single; 41; whole or part; reduced war terms; North London. "Reasonable" (160/16), Office of this Paper.

PART-TIME or easy hours berth; qualified; 32; excellent experience and references; outdoors. Sausom, May Cottage, Hambrook, Emsworth.

PART-TIME; qualified; one or two evenings weekly; Retail or Dispensing; S.E. preferred. 159/12, Office of this Paper.

PHARMACIST (28), tall, wide experience, business-builder, good references, desires change; Branch Management or Senior; disengaged when suited. "Midlands" (157/40), Office of this Paper.

QUALIFIED; Senior or otherwise; tall; 28; West-End and provincial experience; excellent references; disengaged. Williams, 52 Achilles Road, West Hampstead, N.W.

QUALIFIED; competent, energetic, and trustworthy Manager; permanency; partnership or succession entertained; 40; unblemishable references; now disengaged. Williams, Pharmacist, Tynypystill, Garn Dolbenmaen, Carnarvon.

QUALIFIED; Locum, permanency; 36; married; Counter, Dispensing; disengaged. Stewart, 3 Elborough Street, Southfields, S.W.

QUALIFIED; Manager; reliable, experienced. "Ph.C.," 113 Plashet Grove, East Ham, E.

QUALIFIED Chemist, middle-aged, requires permanency; busy Retail, Dispensing, or any capacity; outdoors; moderate terms; best references. "Chemist," 68 Grove Lane, Camberwell.

QUALIFIED Assistant seeks berth in West End, City; London, Provincial, Continental experience; French; 33. Apply, 157/37, Office of this Paper.

QUALIFIED; Manager or Locum; experienced; disengaged. 158/23, Office of this Paper.

QUALIFIED; good experience and references, including Continental and West End; fluent French; West End or City. 158/32, Office of this Paper.

QUALIFIED Chemist desires evening engagement from 6 till 9. "W. A. P.," 28 Gloucester Crescent, Regent's Park.

QUALIFIED; elderly; Locum; whole or part time; excellent references; London. 162/37, Office of this Paper.

QUALIFIED; daily Relief; permanent. Furnivall, 21 Ryecroft Street, Fulham.

RESPONSIBLE position; 28; unqualified; tall; gentlemanly appearance and address; experienced Dispenser, tactful Counterman; Continental experience; married. "Cachet," 51 Camberwell New Road, S.E.

SUCCESSION.—Manager, view ultimately to succession; highest references. "Alpha," 104 Battersea Rise, S.W.

TEMPORARY or permanent; unqualified; outdoors; middle-aged. "Alpha," 36 Chudleigh Road, Brockley, S.E.

TEMPORARY or Locum; qualified. Bailey, 31 Derby Street, Moss Side, Manchester.

UNQUALIFIED, Irish, 3 years' City experience, Retail and Dispensing, desires situation as Improver or Junior. T. Molony, 16 William Street, Limerick.

UNQUALIFIED; 35; excellent all-round experience; disengaged; London or London, Brighton, South Coast preferred; permanent. "T.," 3 Egerton Road, Bexhill-on-Sea.

UNQUALIFIED; evening work wanted; Dispensing or Surgery Attendant. "A.," 24 College Street, Chelsea.

YOUNG Lady wants situation in a Chemist's to put up stock; can serve. M. Williams, 37 Burgoyne Road, Harringay, N.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

ACTIVE Foreman for Chemical Works, with all-round experience, wants position of trust; would undertake to improve neglected business; exceptional references. "Carpe Diem" (154/28), Office of this Paper.

ACTIVE, energetic Traveller; 20 years' experience, 7½ present firm; open February; connection includes South Coast, Midlands, and Eastern Counties, Chemists, etc.; good reasons for changing. "Push," "Pittsburgh," Wormholt Road, Uxbridge Road, W.

ADVERTISER; 16 years' sound Wholesale experience, manufacturing Galenicals, Proprietaries, Toilets, etc.; well recommended; Lancs or Yorks preferred. "J. H. M.," 4 Summer Road, Netherton, near Huddersfield.

ADVERTISER seeks a responsible position in a London Wholesale house; 10 years' excellent Retail experience; undeniable references; 26; disengaged; Travelling London suitable. 160/9, Office of this Paper.

AS Traveller, Agent, or London Representative. "Chemist," 68 Grove Lane, Camberwell.

DESPATCHING Department (Wholesale). — Man (35) seeks situation Despatching and Export Packing; 16 years same firm of Manufacturing Chemists. 157/34, Office of this Paper.

EXPERIENCED Traveller, with Yorkshire connection, seeks re-engagement; Druggists' Sundries, Toilet Articles, etc.; energetic; abstainer; capable organiser; references. 159/33, Office of this Paper.

REPRESENTATIVE desires to Represent good enterprising house on part expenses and commission basis; experienced; well introduced; highest reference. "Lancashire" (162/18), Office of this Paper.

Refugee Belgian Pharmacists.

This section is devoted to the announcements of Belgian confrères at present in this country. We shall be pleased to insert gratis announcements of a similar character from others who are seeking situations in the Drug trade.

Cette section est réservée pour les annonces des confrères belges qui se trouvent actuellement dans ce pays. Nous serons heureux d'insérer gratis des annonces semblables de ceux cherchant des places dans le commerce des drogues.

ANALYTICAL Assistant.—Advertiser, who holds the diplomas in Chemistry and Electricity of the Ecole Industrielle at Antwerp, requires a position in England until the end of the war; disengaged February 1; London references; has an intimate acquaintance with German scientific literature. J. Edmond Aps, c/o Mr. Scholes, Oxo, Ltd., 43 to 51 Park Street, Southwark, London, S.E.

BELGIAN Pharmacist, from Brussels (with family), desires occupation in a Pharmacy or Wholesale Druggists; speaks a little English; London or neighbourhood preferred. Write, A. André, 62 Whitestile Road, Brentford.

BELGIAN Pharmacist (refugee), having an English Patent for a substitute for Binder, wants Partners in order to work it. "Belgian" 500/2), Office of this Paper.

BELGIAN Chemist, who has studied Chemistry at Ghent University and has been for two years an Assistant Pharmacist, seeks employment; he understands Photography and Analytical work; speaks English well. Pierre Beglin, c/o the Belgian Relief Committee, 10 Finsbury Square, London, E.C.

BELGIAN Chemist, established in Brussels, having represented German Specialities, wishes to replace same by English Patent Medicines. Address, Disclez, 4 Bitton Crescent, Teignmouth, Devonshire.

MERCHANT-EXPORTER (Belgian Refugee), many years' experience in the Export of Drugs, Chemicals, and Druggists' Sundries to South America, desires situation in Wholesale or Manufacturing house in London or large Provincial town, or as Representative in South America; speaks and corresponds in French, Dutch, English, and Spanish. Address, R. De Roubaix, 105 Burnt Ash Hill, Lee, S.E.

PHARMACIST, whose Pharmacy at Aerschot has been destroyed, desires situation in London; Retail or Wholesale; speaks English, French, Flemish, Dutch. Address, E. Ingebos, 10 Evelyn Mansions, Queen's Club Gardens, West Kensington.

MISCELLANEOUS

NORTHERN PHARMACISTS

Exhibition of Ucal Products

January 12, 13 and 14, at

Victoria Hotel, Deansgate, Manchester,

Open 10 a.m. to 1 p.m.
2 p.m. to 6.30. p.m., 7 p.m. to 10 p.m.

All Retail Pharmacists cordially invited.

Mass Meeting of Pharmacists

at Victoria Hotel, Manchester,

Wednesday, January 13.

Chairman: Mr. F. W. BATES, Manchester.
Speakers from London, Sheffield and other towns.

Progressive Pharmacists should endeavour to attend.

PHARMACY FOR THE PHARMACIST.

McADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Lee Green.
Shares for Sale (free of commission, subject).—300 Alby United Carbide, 19*s.* 6*d.*; 200 New (fully paid), 17*s.* 6*d.*; 100 British Oxygen Ordinary, 39*s.*; 250 Imperial Tobacco Canada Ordinary, 16*s.* 9*d.* (dividend last year 7 per cent.).
Wanted (subject).—35 Evans Lescher Preference, 96*s.* 7½*d.*
Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SECOND-HAND Chemist's Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

BEST cash price for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E.

SHOPFITTINGS at War Prices.—To make room, the whole of our Stock is to be Sold at reductions from 10 per cent. to 50 per cent. discounts; 12-ft. Mahogany and Plate-glass Counter, £8 7*s.* 6*d.*; 6-ft. Mahogany Wall Showcase, 9 ft. high, £7 17*s.* 6*d.*; 6-ft. Mahogany and Bent Plate-glass Counter Case, 90*s.*; other bargains in proportion. Write inquiries, PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

McQUEEN'S A.B.C. System of Accounts; works out profit and loss account, income-tax return, etc., with guaranteed certainty; heavy war-tax and greater insistence in payment must be anticipated; poor bookkeeping may prove costly. Full particulars and testimonials free from McQueen & Co., Moat Road E., Leicester.

B.P., 1914, 10*s.* 6*d.* net cash; postage 5*d.*, two copies 6*d.*, three 7*d.*; abroad 9*d.* each; previous offers withdrawn. New and second-hand Books in every department of literature; Chemists' and Students' requirements a speciality; buyers, please name wants, when prices will be quoted. Stirling's Aids to Minor and Apothecaries' Examinations are indispensable, and save College fees; descriptive list free. Gower, Pharmaceutical Bookseller, 41 Voltaire Road, Clapham, London.

BY TEST—THE BEST!

Arouse your trade with our Special "INVINCIBLE" Series Offers (Advt.)

FOR P.O. 1/11	TWO CARDS, one 15 by 10, in Art Tint, effective Panel Design, Relief-Shaded Letters; and one 12 by 10, White Enamel, Embossed Colour Border and Coloured Lettering, for any "PREP.," sent Carriage Paid. NOT Price Lists.
FOR P.O. 2/11	TWO CARDS, 15 by 10, Art Tints, Shaded Letters or White Enamel with Coloured Letters and Price, each card with a Hand-drawn Figure Sketch for any "PREP.," Coughs, Influenza, etc., sent Carriage Paid. NOT Price Lists.

F. MERTEN & CO., 72 Marlborough Rd., Holloway, London, N.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6*d.*

FOR DISPOSAL.

DRUGS AND CHEMICALS.

1 oz. each protargol, helmitol, urotropine, trional, veronal; two 1 oz. aspirin; what offers? Shand & Orr, Salford.

ABOUT 30 galls. B.P. liquid paraffin (Galician); what offers? 151/21, Office of this Paper.

4 lb. soda salicylate, 5*s.* lb.; 3 oz. hedonal, 3*s.* oz.; 4 oz. cocain. hydrochlor., 8*s.* 6*d.* oz.; 1 dram atropine sulphate, 8*s.* 6*d.* Finlayson, Stockton-on-Tees.

SURPLUS Stock.—2 lb. potass. iodid., 12*s.* 6*d.* lb.; ½ lb. pulv. iodoform., 1*s.* 1*d.* oz.; ½ lb. morphia hydrochlor., 11*s.* per oz.; 5 galls. paraffin liquid, B.P., 20*s.* gall.; all guaranteed B.P.; cash with order. Brewer & Marston, Chemists, 44 Copthall Avenue, E.C.

MISCELLANEOUS.

"STOKES'" still, capable of distilling 100 galls. of water per day with a normal pressure of steam. Needhams, Stirchley, Birmingham.

FOR sale, owing to giving up wholesale, ointment mill and emulsifying machine, both by Wilkinson, of Leicester. Full particulars on application to Needhams, Stirchley, Birmingham.

WANTED.

RADIUM applicators (damaged). Glew, Chemist and Radiographer, 156 Clapham Road, London.

MINOR books, microscopic slides. Particulars and price, "Hazomine," 11 Boundary Street, Rochdale.

WANTED, folding and vest-pocket cameras, also prism binoculars, any quantity, for cash. Full particulars to Watson's, 84 High Street, Sheffield.

WANTED, improved mercurial ointment mill to make 500 lb. in 6 hours. Will makers please communicate with "B. P." (215/55), Office of this Paper.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.

8/- JAY MACK'S LEDGER

gives essential details of Income and Exes. in 10 Minutes weekly for 4 years.

On approval 4 days on receipt of P.O. or Cheque: 7/- refunded if returned safely.

Post Free.

MACK-IVOR, High-town, P.O. CREWE. | Or AYRTONS; EVANS; THOMPSONS, Liverpool. BOOKING FEE if returned.

New Books.

Any book published in the United Kingdom can be supplied to our subscribers at the price quoted. Orders, with remittance, should be sent to the Publisher, 42 Cannon Street, London, E.C.

Lucas, E. W., F.I.C., F.C.S. *The Book of Prescriptions, with Notes on the Pharmacology and Therapeutics of the More Important Drugs and an Index of Diseases and Remedies.* With an Introduction by A. Latham, M.A., M.D., F.R.C.P. 10th edit. 6½×3¾. Pp. xv+375. 6*s.* 6*d.* net. (J. & A. Churchill.) [This book is for medical practitioners, and has been brought into conformity with the new B.P. It shows evidence of thorough revision, with useful additions.]

Netherlands Notes.

(From the "C. & D." Correspondent.)

Belgian Refugee Students are also admitted free to the lectures and practical work at the Universities of Utrecht, Leiden, and Groningen. (See *C. & D.*, Supplement, December 26, 1914.)

The National Loan. — The "Staats-courant" of December 25-28 contains the text of the Bill of December 23, 1914, for the raising of one or more loans to a total amount of 275 millions of guilders, and for the means of raising the interest and for repaying the loan. The Bill provides for an additional tax of 10 cents on alcohol for a period of two years from January 1, 1915, and a further tax of 20 cents on sugar and wine for three years from January 1, 1915.

Industrial Property and Patent Regulations.—The text of a Royal Decree of August 15, according to which new regulations (embracing eighteen articles) for the Bureau of Industrial Property will come into force on January 1, 1915, is given in the "Staats-courant" of December 24. The same issue also contains the text of the new patent regulations (consisting of fifty-nine articles), which come into force at the same time, and differ in few respects from the previous patent regulations.

The Purity of Cocoa.—In the Second Chamber of the States-General the question has been raised by Mr. de Jong as to the purity of cocoa. He urged the introduction of legislation giving power to regulate the standard for cocoa. Holland has a reputation for cocoa, which it is in danger of losing by reason of the adulteration which is taking place. Samples of cocoa have been found which had 20 per cent. of fat removed, and others which contained 90 per cent. of shell. The Minister of the Home Department replied that there is no time at present for drawing up the law asked for, but he affirmed that the adulterators referred to could be prosecuted under the present Penal Code, which provides severe punishment for supplying goods of a low quality. Our correspondent adds that in the papers advertisements appear offering cocoa-shells for sale, and that cocoa is offered containing only 4 per cent. of fat. The present law is not applied to any extent, and there is certainly need for special measures to be taken.

The Abuse of Opium in Java.—According to an article on this subject in the "Soerabaia's Handelsblad" by Mr. Van Geuns, the work of the officials for the administration of the Excise-duty on opium has shown (*a*) that, while harmful, opium is not so harmful as has been stated; (*b*) that the consumption of opium in Java is of small importance only; (*c*) that the exorbitant prices of opium in Java are neither necessary nor desirable. The author gives many arguments in support of the statement under (*c*), and, from the communications of several physicians and other experts, he concludes that opium is less prejudicial than alcohol, morphine, or cocaine. The second statement is supported by official figures, from which the author arrives at the conclusion that the annual consumption of opium per head of the population (thirty millions) is 1 gram (value 1 cents). Mr. Van Geuns defends the third statement on the ground that the high price of the drug does not deter habitual users from obtaining supplies, and, further, that it encourages smuggling and the illegal production of opium. He considers it desirable that the price should be lowered at least 25 per cent.

ONLY four insolvencies of chemists and druggists in Scotland were recorded in 1914, against six in 1913, but that this was due to Insurance dispensing the chronicler saith not.

Dogs and Cats.

THE purpose of the succeeding lines is to show that there is an opportunity of considerable pecuniary value to the chemist and druggist who will devote a little thought to the relief of the sufferings of cats and dogs.

While, so far as recognised formulæ are concerned, there are numerous examples in "Veterinary Counter-practice" a few hints on "how to go about it" may be found helpful, especially to the novice or beginner. It is not necessary to be a dog or cat fancier in order to profit by them. All that one requires to do is to "study the case" and ask the owner questions, and that very freely. Let us suppose a customer comes with a toy "Pom." off his food, poor coat, and generally out of sorts. Now, supposing we were asked for something for a baby having the same symptoms (replacing the poor coat by feverishness), what would we prescribe? Firstly, an antipyretic and stomachic sedative, following this up with a good tonic. Precisely the same treatment is required for the "Pom.," with, in addition, a little oily application to dress and improve the coat. It is always advisable to combine an anthelmintic (in the case of the dog) with the stomachic mixture, and this may be given more readily in the form of a ball. Then, again, for diarrhœa, colic, etc., a little mist. cretæ c. catechu, with a small dose of hexamethylenetetramine, will be found most beneficial. It is well to be observant and to learn as one goes along from each case undertaken. Soon you will become fully conversant with the various diseases or troubles and their treatment, and not only will pets be brought to you, but you will be asked to go and see them (when you can charge a higher fee). Then there are the various dog-foods, etc., which form a very profitable side-line, and window-shows of these are supplied gratis by various firms. A model of a dog or cat will be found to attract considerable attention, and a small leaflet enclosed in parcels, stating that you specialise in veterinary medicines, is an inexpensive and convincing advertisement.

The possibilities of this class of business will be apparent to the modern chemist, and while there is such a craze, as there undoubtedly is at the present day, for "Poms." and Persian cats, etc., it is well that chemists should participate in their rearing. People who pay large sums for pets are generally quite pleased to pay a good figure for treatment when required. Never show hesitation in the diagnosis of a case if you wish to build up this side-line. A chemist can never go far wrong in prescribing simple yet effective remedies, and one successful case will bring you in numbers more. Then you are advertising your general business at the same time. Much more might be said as a help to beginners, but it is hoped that the foregoing hints may prove interesting and helpful.

SPECIAL CARE has to be taken in cashing 1*l.* notes, as false ones are in circulation; one presented marked B 2706 turned out not to be genuine.

COPPER ORE AS OIL-CAKE.—At Hull recently a Danish steamer from Galveston was brought in by a war-vessel with a cargo described as oil-cake. When the cargo was probed it was found that while the upper portion consisted of oil-cake, beneath there was a heavy consignment of copper ore, doubtless intended for Germany.

AMERICAN LIQUID PARAFFIN approximating to the B.P. standard is now on the English market in gallon tins at considerably less per gallon than the Russian variety. It should be noted that the American gallon is the old Elizabethan wine-gallon of 128 fl. oz., and this should be taken into account in pricing the new oil for retail.

FAILURES in the retail drug-trade (United Kingdom) last year numbered thirty-six, compared with forty in 1913 and sixty-nine in 1912. In the wholesale section there were four, compared with two in each of the two preceding years. These figures are given by Mr. Richard Seyd, F.S.S., in his "Statistics of Failures in the United Kingdom during 1914."

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

Cape Province.

Business still keeps very good at the Cape. Mr. F. Varley has opened a very nice little pharmacy at Varney's Corner, Green Point.

Lennon, Ltd., made a very pretty display of perfumes suitable for Christmas presents in their Adderley Street window—quite a patriotic one, the British colours predominating, with a photo of Jellicoe on one side and French on the other.

The Supply of some drugs and chemicals is getting very short (at time of writing): such items as pot. cit., phenazone, and paraff. liq. are only obtainable in small quantities, and then at high prices. Phenazone is 1*s.* 9*d.* per oz. and pot. cit. 7*s.* 9*d.* per lb.

The War.—Writing on December 18, a correspondent says: "To-day's news *re* the bombardment of those defenceless towns by the Germans is very sore reading, but one thing is certain—it will only make us all the more determined to beat the Huns. As far as I can gather, we out here are now going to have a very determined campaign against the Germans in G.S.W.A. The rebellion up north is finished, so that Botha can give his whole attention to acquiring the German colony and painting it red in more senses than one."

Shop-hours Ordinance.—The proposed Ordinance is along Transvaal lines. It is to provide that no chemist or druggist shall keep his premises open for the purpose of serving the general public later than 7 P.M. on four fixed days of the week, or later than 9 P.M. on one fixed day of the week, or later than 1 P.M. on one fixed day in the week, on which day, however, the shop may be reopened for one fixed hour in the evening, on Sundays or public holidays for more than one fixed hour in the morning and one fixed hour in the evening. No person shall be employed by any other person in or about a shop for more than fifty-two hours, excluding meal-times, in any one week; for more than nine hours, excluding meal-times, in any one day, except on one day in each week, when the employment may be for eleven hours; for more than five hours continuously without an interval of at least one hour for a meal.

Unauthorised Use of Formulæ.—At the Supreme Court, Cape Town, on November 30, Mr. Justice Hutton and Mr. Justice McGregor gave judgment in the action Miller *v.* West. The plaintiff, Mr. J. E. Miller, chemist and druggist, Grahamstown, had been in partnership with the defendant (who trades as West & Co. in Grahamstown) from 1905 until 1908, and he sought to restrain the defendant by interdict from preparing or selling Andrews' Superlative Hair-restorer, Miller's Curative Cough-syrup, and Miller's Antispasmodic Drops, stating that the formulæ were his, and that the defendant had obtained possession of them surreptitiously. The defendant had tendered the sum of 10*l.* as damages, admitting having sold the preparations mentioned. The Court held that the formulæ had been obtained by improper means, that the damages tendered were insufficient, and that the amount of 15*l.* would meet the justice of the case. They, however, came to the conclusion that the defendant had not infringed the plaintiff's rights by passing-off, except in regard to the soothing-syrup, and as the defendant undertook to refrain from selling the preparations in future, the Court did not think it necessary to grant the interdict asked for, but gave judgment for the plaintiff for 15*l.*, and costs.

Medical and Pharmacy Council, O.F.S.

No meeting was held in November as the President and Dr. Usmar were on active service as members of the South African Medical Corps, and other members of the Council were on night duty with the Town Guard in view of the rebellion. A meeting was held on December 11, Dr. Johnson presiding. A letter from the Cape Pharmacy Board as to the British Pharmacopœia, 1914, having been read, it was agreed that the Government should be advised to make July 1, 1915, the date when it should come into force by proclamation in accordance with Section 40 of the 1904 Ordinance—viz.: "All chemists and druggists shall prepare their medicines according to the British Pharmacopœia unless otherwise directed by the medical practitioner prescribing, provided that it shall be lawful for the Lieutenant-Governor, on the advice of the Council, by Proclamation, to determine what edition of the British Pharmacopœia shall be used, and to authorise such alterations in the preparations mentioned therein as may be found necessary to meet the special conditions of this Colony."

The Secretary pointed out the impossibility of having the Register published for 1915, as required by Section 31 of the same Ordinance, as the Council has not the funds for the work; and it was resolved that a notice be published in the Government "Gazette" containing the necessary additions and alterations in the Register, and a notification that the Register for 1914, supplemented by a gummed slip containing such additions and alterations, should be deemed to be the Register for 1915.

Australasian News.

"The Chemist and Druggist" is supplied weekly to all the members of nine Chemists' Societies in Australia and New Zealand.

The Commonwealth.

The Inter-State Commission took evidence on tariff questions at Adelaide on November 3. Mr. James Hendry, representing A. M. Bickford & Sons, asked for a 25 per cent. duty on arsenate of lead. The firm would undertake not to raise prices if this were granted. Two men are employed in the industry. The labour cost amounts to about 12 per cent. The materials are imported free of duty, and freight has to be paid, while the Americans have to pay carriage on the arsenate of lead they import. Many questions were asked, and one of the Commissioners said if it were not going to lead to the employment of labour he did not see what good the duty would do. Labour is as costly in America as in Australia, and the raw material is duty free. The witness also asked for the free importation of spirit for the manufacture of pharmaceutical preparations. Mr. R. H. Martin, chairman of directors of the Stonyfell Olive Co., applied for an increase of duty on bulk olive oil from 2*s.* a gallon to 4*s.* Witness virtually admitted that the supply was not equal to the demand. His company paid 1,425*l.* for labour in a good year. Usually one good olive-crop is obtained in three seasons. In 1910 they obtained 10,000 gals. The Commissioners said that they would like to know how the increased duty would affect other industries which use inferior grades of oil.

South Australia.

Grass-tree Gum.—A question concerning a certain gum exported from South Australia to Germany in large quantities was asked in the Commonwealth Senate on November 18. Senator Pearce stated that he would have investigations made into the allegation that it contained properties which would make it commercially valuable for the manufacture of explosives, and, if so, he would have the exportation stopped. This is grass-tree gum, the exportation of which has been prohibited. It is obtained by breaking up the stems of the grass-trees and sifting and winnowing the "rough" powder. It is used as a colouring for varnishes.

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Wednesday, January 13.

Newcastle-on-Tyne Pharmacists' Association, No. 6 Room, Temperance Institute, Rutherford Street, at 8 P.M. Mr. F. Gilderdale on "The New Pharmacopœia."

Sheffield Pharmaceutical and Chemical Society, Literary and Philosophical Society's Rooms, Church Street, at 9 P.M. Mr. Thompson on "Colour and Colour Perception."

Western Pharmacists' Association, Restaurant Frascati, Oxford Street, London, W., at 7 P.M. Whist-drive and supper in aid of the Belgian Doctors' and Pharmacists' Relief Fund. Tickets (4*s.* 6*d.* each) from the Hon. Secretaries, Mr. A. Latreille, 48 Baker Street, W., or Mr. W. E. D. Shirtliffe, 66 Goldhawk Road, Shepherd's Bush, W.

Manchester Pharmaceutical Association, Albion Hotel, Piccadilly, at 3 P.M. Discussion on "Trade Topics."

Edinburgh Chemists', Assistants', and Apprentices' Association, 36 York Place, at 8.30 P.M. Mr. J. Tait on "Ordeal Poisons," with exhibition of specimens.

Birmingham Pharmacists' Association.—A whist-drive and supper will be held at the Grand Hotel on January 20. Tickets (4*s.* each) from the Hon. Secretary.

West Ham Association of Pharmacists.—The annual dinner will be held at the London Tavern, Fenchurch Street, London, E.C., on February 11. Tickets (5*s.* each) from the Hon. Secretary, Mr. A. H. Cleland, 180 High Road, Leytonstone, N.E. The profits will be given to the Belgian Doctors' and Pharmacists' Relief Fund.

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